

HIGHWAY 7 CORRIDOR & VAUGHAN NORTH-SOUTH LINK PUBLIC TRANSIT IMPROVEMENTS
SUMMARY LISTING OF EA COMPLIANCE DOCUMENTATION
FOR H2-WEST AND H2-EAST SEGMENTS (excluding the H2-VMC SEGMENT)
ALSO REFERRED TO AS THE “IO BUNDLE”
WEST OF BRUCE STREET TO EDGELEY BOULEVARD, AND
EAST OF BOWES ROAD TO YONGE STREET (VIA CENTRE STREET AND BATHURST STREET)
December 2016

This Annual Compliance Review has been prepared by the Design Build Consortium who is implementing the project under a Design-Build-Finance contract. Compliance items related to policy, land use planning, operations and maintenance activities, etc. are reported by York Region. The Compliance Review is carried out by an independent Environmental Compliance Lead, on behalf of York Region’s Environmental Compliance Manager. All non- closed items are subject to compliance review. Occasionally, there are items with issues that could not be addressed within the time between the compliance review and submission date. These items are noted and steps to address the issue are indicated. These items will be reviewed in next year’s submission.

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Completion Status		Notes
On-going / In progress		Work has begun on this item but not completed
Completed		All work completed for this item.
Future Work		No work has begun on this item.
No Action Required		No action is required to meet commitments
Does not apply		Does not apply to segment <u>H2</u> .
Compliance Review		
Column	Results	Notes
Status	Yes	Status accepted: the statement about the status of the item is accepted based on the reviewers understanding of the project.
	No	Status not accepted: the statement about the status of the item is not accepted based on the reviewers understanding of the project.
	UNC	Unclear: Further explanation requested regarding the status of the item.
Results	AC	Accepted means that items are reported as in-progress but have not reached a reportable milestone (i.e., there is no documents available). The statement on status is accepted based on the reviewers understanding of the project.
	EF	Evidence Found means that the evidence provided reasonably shows that a compliance action (i.e., something done to address a compliance item) has been undertaken.
	EFC	Evidence Found of Change means that the evidence provided reasonably shows that a compliance action has been undertaken but the action is a change from the compliance item.
	NSE	Not Sufficient Evidence means that the evidence provided although applicable to the compliance action, is not adequate to reasonably show that the compliance action has been undertaken, or that evidence is believed to be available
	ENF	Evidence Not Found means that evidence has either not been provided or that the evidence does not appear related to the compliance action.
	Closed (year)	No further action or review of the item is warranted. Either all condition / commitments for the item have been addressed and reviewed, or the item does not apply or requires no action.
Notes	Comments in regard to the compliance review for that year. In addition, the closed components of an item are tracked. For example, an item may have three distinct components, designated by [1], [2] and [3]. If only component [1] was completed in 2013, the column will include a statement that component [1] was closed in 2013. That statement will remain in each subsequent ACR report until all components (i.e., [2] and [3]) are closed. For information on items closed in previous years the reader is directed to the ACR for the year the item was closed.	

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Glossary

AADT – Annual Average Daily Traffic
 AAQC – Ambient Air Quality Criteria
 ACR – Annual Compliance Report
 AODA - Accessibility for Ontarians with Disabilities Act
 APEP - Air, Pesticides, and Environmental Planning
 ASI - Archaeological Services Inc.
 AQ – Air Quality
 BHF – Built Heritage Features
 BRT – Bus Rapid Transit
 CAH - Controlled-Access Highway
 CEAA – Canadian Environmental Assessment Agency
 CLU – Cultural Landscape Units
 CMP – Compliance Monitoring Program
 CN – Canadian National Railway
 CoA – Certificate of Approval
 COSEWIC – Committee on the Status of Endangered Wildlife in Canada
 CP – Canadian Pacific Railway
 CPAC – Cycling and Pedestrian Advisory Committee
 DBCR – Design Basis and Criteria Report
 DD – Detail Design
 DFO – Fisheries and Oceans Canada
 EA – Environmental Assessment
 EAA – Environmental Assessment Act
 EAAB – Environmental Assessment and Approvals Branch
 EASR – Environmental Activity and Sector Registry
 EB – Eastbound
 EBL – Eastbound Left
 EBR – Eastbound Right
 EBT – Eastbound Through
 ECM – Environmental Compliance Manager
 EDCO – EDCO Construction, the Design-Build consortium implementing the segment
 EJV – Engineering Joint Venture
 EMP – Environmental Management Plan
 ERS – Emergency Response Services
 EW – East-West
 GhG – Greenhouse Gases
 Gov't – Government
 GTA – Greater Toronto Area

H2 – vivaNext segment on Highway 7 from West of Pine Valley Dr to Yonge St, excluding the H2-VMC segment
 H2-VMC – vivaNext segment on Highway 7 from West of Edgeley Blvd to East of Bowes Road
 HADD – Harmful Alternation, Disruption or Destruction
 Hwy - Highway
 IFC – Issued For Construction
 IO Bundle – refers to the H2-West and H2-East Segments, collectively
 LOS – Level of Service
 LRT – Light Rail Rapid Transit
 LRTP – Long Range Transportation Plan
 MNR – Ministry of Natural Resources
 MNRF – Ministry of Natural Resources and Forestry
 MOE – Ministry of the Environment
 MOECC – Ministry of the Environment and Climate Change
 MTCS – Ministry of Tourism, Culture, and Sport
 MTO – Ministry of Transportation
 NB – Northbound
 NBL – Northbound Left
 NBT – Northbound Right
 NBT – Northbound Through
 NPC – Noise Pollution Control
 NW – North-West
 OE – Owner Engineer
 OGS – Oil Grit Separator
 OPSS – Ontario Provincial Standard Specification
 OSAA – Ontario Secretariat for Aboriginal Affairs
 PCC – Public Consultation Centre
 PE – Preliminary Engineering
 PIC – Public Information Centre
 ROW – Right-of-way
 RT – Rapid Transit
 RTOR – Right-Turn-On-Red
 SAR – Species at Risk
 SBL – Southbound Left
 SBR – Southbound Right
 SBT – Southbound Through
 SE – South-East
 SW – South-West
 SWM - Storm Water Management
 SWMP – Storm Water Management Plan
 TAC – Technical Advisory Committee

TCP – Transportation Conversion Plan
TRCA – Toronto and Region Conservation Authority
TS – Technical Support
TSS – Total Suspended Solids
TSP - Total Suspended Particles
TTC – Toronto Transit Commission
TYSSE – Toronto York Spadina Subway Extension
WB – Westbound
WBL – Westbound Left
WBR – Westbound right
WBT – Westbound Through
VCC – Vaughan Corporate Centre
YCDSB – York Catholic District School Board
YR – York Region
YRDSB – York Region District School Board
YRRTC – York Region Rapid Transit Corporation
YRT – York Region Transit

Section 1.0 – Background & Purpose of the Program						Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Stage Condition will be addressed	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
1	CMP Section 1.0 - "...The ACR documentation will be made available to the MOE, or its' designate upon request, in a timely manner during an on-site inspection or audit ..."	York Region	Design, Construction and Operation	Status – Ongoing. ACR documentation is provided to MOE annually.	Letter from MOECC acknowledging receipt of 2015 ACR, February 11, 2016 (ID# H2WE-2016-101).	Yes	EF	The evidence provided supports the assertion that the ACR documentation is provided to MOE in 2015.
1-a	CMP Section 1.1 –Project implementation phasing	York Region	Design and Construction	Status – Ongoing. Implementation of the Project is being phased by segments, based on the availability of funding. The status and timing of the different segments is addressed in the key map attached to the transmittal letter with each ACR submission.	Key Map titled "Project Status – Highway 7 Projects" (ID# H2WE-2016-102)	Yes	EF	
2	CMP Section 1.2 - "Vaughan N-S Link segment of the undertaking is not included in this CMP..."	York Region	Design, Construction and Operation	Status – Does not apply to the H2 Segment The TTC has prepared a separate CMP for the Spadina Subway Extension Project and is responsible for compliance monitoring related to the Vaughan N-S Link segment of the undertaking.		Yes	Closed (2015)	
3	CMP Section 1.3 - "Modified alignment required at IBM / Cederland Avenue" "... In January 2008, Regional Council endorsed a modified alignment along Cederland Drive and Warden Avenue as a local refinement to the undertaking approved in the EA. ... An amendment report will be prepared and submitted for approval following the process described in section 6.0 of this CMP."	York Region	Design, Construction and Operation	Status – Does not apply to the H2 Segment The Cedarland Alignment is in the H3 Segment.		Yes	Closed (2015)	

Section 1.0 – Background & Purpose of the Program						Compliance Review		
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4	CMP Section 1.4 - "Cornell Terminal site plan is evolving post EA approval" "...Since approval of the EA, progress has been made in the development of what is now known as the Cornell Transit Terminal. ... Once the Cornell Terminal site plan is complete, it will be documented in the ACR."	York Region	Design, Construction and Operation	Status – Does not apply to the H2 Segment The Cornell site is in the H4 Segment		Yes	Closed (2015)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
5	1.0 General Conditions 1.1 The Proponent shall comply with all the provisions of the EA submitted to the MOE which are hereby incorporated by reference except as provided in these conditions and as provided in any other approvals or permits that may be issued.	York Region	Design, Construction and Operation as specified	Status - Ongoing. This condition will be addressed once all commitments have been met.	Letter from MOECC acknowledging receipt of 2015 ACR, February 11, 2016 (ID# H2WE-2016-101).	Yes	EF	The documentation provided supports the assertion that ACR documentation was provided to MOECC in 2015
6	1.2 These proposed conditions do not prevent more restrictive conditions being imposed under other statutes.	York Region	As applicable	Status - Ongoing. A number of permits that contain more restrictive conditions have been received for the Project (ID#87). Conditions imposed by approvals issued by regulators will be adhered to. For example, conditions of the approval for temporary discharge granted on June 24, 2016 includes requirements for weekly submittals of the Daily Dewatering Discharge Log, Environmental Site Inspections, and documenting deficiencies and corrections in the Monthly Environmental Reports.	vivaNext H2 BRT Expansion - H2 West, H2 East Project Approvals Matrix - June 3, 2015 (ID#87) Letter from YR: Temporary Discharge Approval Amendment (2016-DEW-VA-5244-1-A), dated August 18, 2016 (ID#61) Letter from YR: Temporary Discharge Approval (2016-DEW-VA-5244-1-A), dated June 24, 2016 (ID#74) Daily Dewatering Discharge Log, dated June 24, 2016 (ID#75) Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76) Environmental Monthly Report Logs - 2015 to 2016, dated September 28, 2016 (ID#77)	Yes	EF	It is recognized that other conditions are imposed by other legislation. The documents provided (ID#87, ID#61), illustrate that more restrictive conditions do exist and are being addressed.

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
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7	2.0 Public Record 2.1 [1] Where a document is required for the Public Record, it shall be provided to the Director for filing with the Public Record maintained for this undertaking. Additional copies of such documents will be provided by the Proponent for public access at [2]: a) The Regional Director's Office; b) The Clerks offices of the Regional Municipality of York; c) The Town of Richmond Hill; d) The Town of Markham; and e) The City of Vaughan; f) Richmond Hill Central Library; g) Unionville Library; and h) Ansely Grove Library. These documents may also be provided through other means as considered appropriate by the Proponent and acceptable to the Director. [3]	York Region	Design, Construction and Operation as specified	Status - Ongoing To be completed with the filing of the last ACR. [1] The 2015 ACR was submitted to MOE on December 23, 2015. [1] Copies of the 2015 ACR were provided to Markham, Vaughan, Richmond Hill and York Region and libraries on January 5, 2016 [2] and posted online. [3]	[1] Correspondence transmitting 2015 ACR to MOECC dated December 22, 2015 with "Received" stamp dated December 23, 2015 (ID # H2WE-2016-103) [2] Correspondence transmitting 2015 ACR to Clerks offices and libraries dated January 5, 2016 (ID# H2WE-2016-104 and H2WE-2016-105, respectively) [3] http://www.vivanext.com/files/EnvironmentalAssessments/Compliance%20Reports/VH2IO-ENV-RPT-2015%20EA%20Compliance%20-%20FINAL.pdf	Yes	EF	The evidence provided [Y2016-004,5] and website was found to support the assertion regarding conditions [1-3].
8	3.0 Compliance Monitoring and Reporting 3.1 The Proponent shall prepare and submit to the Director for review, comment and for placement on the Public Record an Environmental Assessment CMP as committed to in section 11.4 of the EA. The CMP shall be submitted no later than one year from the date of approval of the undertaking, or 60 days before the commencement of construction, whichever is earlier. A statement must accompany the CMP when submitted to the Director indicating that it is intended to fulfill this condition. The CMP, as may be amended by the Director, shall be carried out by the Proponent.	York Region	Design stage (Timing as specified in condition 3.1)	Status – Completed	MOE Compliance Monitoring Program letter of approval (ID# 3706) EA Compliance Monitoring Program August 2008 (ID# 3683)	Yes	Closed (2015)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
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9	3.2 The Proponent shall provide a copy of the CMP to those agencies, affected stakeholders and/or members of the public who expressed an interest in the activity being addressed or being involved in the subsequent work no later than one year from the date of approval of the undertaking, or 60 days before the commencement of construction, whichever is earlier. If the Director amends the CMP, the Proponent shall ensure that the amended copy of the CMP is provided to those agencies, affected stakeholders and/or members of the public who expressed an interest in the activity being addressed or being involved in a timely manner.	York Region	Design stage (Timing as specified in condition 3.1)	Status – Completed	EA Compliance Monitoring Program August 2008 (ID# 3683) York Region letter of submission of final CMP (ID# 4157, 4158) MOE Compliance Monitoring Program letter of approval (ID# 3706)	No	Closed (2015)	
10	3.3 The Proponent shall prepare a CMP in order to provide a framework for the monitoring of the Proponent's fulfillment of the conditions of approval as set out in this Notice of Approval, and the fulfillment of the provisions of the EA for mitigation measures, built-in attributes to reduce environmental effects, public and Aboriginal community consultation, additional studies and work to be carried out, and for all other commitments made during the preparation of the EA and the subsequent review of the EA.	York Region	Design, Construction and Operation as specified	Status - Completed	EA Compliance Monitoring Program August 2008 (ID# 3683) MOE Compliance Monitoring Program letter of approval (ID# 3706)	No	Closed (2015)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
11	3.4 The CMP shall at a minimum: a) set out the purpose, method and frequency of activities to fulfill compliance; b) provide a framework for recording and documenting results through the ACR; c) describe the actions required to address the commitments; d) provide an implementation schedule for when commitments shall be completed; e) provide indicators of compliance; and f) include, but not be limited to, a consideration of the commitments outlined in Tables 10.4-1 to 10.4-4 and Tables 11.3-1 to 11.4-2 in the EA, and Proponent's letter and attachments dated May 5, 2006 (included in Appendix E).	York Region	Design stage	Status – Completed	EA Compliance Monitoring Program August 2008 (ID# 3683) MOE Compliance Monitoring Program letter of approval (ID# 3706)	No	Closed (2011)	
12	3.6 The Proponent shall prepare an ACR which describes the results of the CMP and shall do so annually. 3.7 The Proponent shall submit each ACR to the Director for review and comment and for placement on the Public Record. 3.8 The timing for the submission of the ACRs shall be set out in the CMP, including the timing for submission of the first ACR. 3.9 The Proponent shall submit ACRs until all applicable conditions of approval and commitments of the EA are satisfied or until the Director notifies the Proponent that no further reports are warranted. 3.10 When all conditions have been satisfied, the Proponent shall indicate in the ACR that this is its final submission.	York Region	Design, Construction and Operation as specified	Status – Ongoing Conditions will be addressed with the submission of ACRs annually until the final ACR.	Correspondence transmitting 2015 ACR to MOECC dated December 22, 2015 with "Received" stamp dated December 23, 2015 (ID # H2WE-2016-103)	Yes	EF	The document supports the assertion that ACR was submitted to MOECC.

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
13	<p>4.0 Transit Technology</p> <p>4.1 The Proponent shall prepare a TCP that identifies how, when and if the undertaking will convert from a Bus Rapid Transit System (BRT) to a Light Rail Rapid Transit (LRT).</p>	York Region	Prior to conversion from BRT to LRT technology as required	Status – Completed The potential future evolution from Bus Rapid Transit to higher capacity Light Rail Rapid Transit is not being planned at this time. York Region has updated its Transportation Master Plan (TMP), November 2016, including the timing of technology conversion from BRT to LRT. The TMP indicates that conversion to LRT will be beyond the 2041 horizon year of the TMP. For purposes of this ACR, we are suggesting that this item be closed as it will not be addressed within the time frame of ACR reporting. While the supporting memo is for H3, it applies to all segments.	York Region Transportation Planning Memo to File, November 23, 2016, Doc. Ref. # YR-2016-001	Yes	Closed (2016)	The document supports the assertion that LRT conversion is not being considered within 20 years and thus no updating will be done to this item. As such, agree that it is closed.
14	<p>4.2 The Proponent shall submit copies of the final TCP to the Regional Director for review and comment and to the Director for placement in the Public Record file.</p> <p>4.3 The Proponent shall notify the Director and Regional Director 30 days before the technology conversion is to occur.</p>	York Region	Prior to conversion from BRT to LRT technology as required	Status –Completed See Item 13 (condition 4.1.)		Yes	Closed (2016)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
15	<p>4.4 The TCP shall include an implementation schedule.</p> <p>4.5 The TCP shall include information about ridership levels and compatibility of the corridor with other transit systems.</p> <p>4.6 Further to Section 5.2.2.3 of the EA, which outlines that converting from BRT to LRT is dependent on other transit initiatives being developed, a copy of the TCP shall be provided to the City of Toronto, the Toronto Transit Commission, the Town of Richmond Hill, the City of Vaughan, and the Town of Markham for review and comment. The Proponent shall provide these stakeholders a minimum 30-day comment period.</p>	York Region	Prior to conversion from BRT to LRT technology as required	Status – Completed See Item 13 (condition 4.1.)		Yes	Closed (2016)	
16	<p>5.0 Air Quality</p> <p>5.1 The Proponent shall prepare a comprehensive Air Quality Assessment Report to address the air quality impacts of the Region's transportation projects. The study area for the air quality report will be determined by the Proponent in consultation with the Regional Director.[1]</p> <p>5.2 Copies of the Air Quality Assessment Report shall be submitted to the Regional Director for review and comment and to the Director for placement in the Public Record file.[2]</p> <p>5.3 The Air Quality Assessment Report shall be submitted to the Regional Director prior to any construction beginning on the undertaking, including site preparation.[3]</p>	York Region	Design Stage	Status – Completed	Final Air Quality Report (2011-04-29) (ID#7270)[1] MOE Letter of Acceptance, June 17, 2011 (ID#7713)[2-3]	Yes	Closed (2011)	
17	<p>5.4 The Air Quality Assessment Report shall, at a minimum, include the following:</p> <p>a) A comparison of predicted contaminant concentrations with all available Ontario Regulation 419/05 Air Pollution - Local</p>	York Region	Design Stage	Status – Completed	Final Air Quality Report (2011-04-29) (ID#7270)[1-10] MOE Letter of Acceptance, June 17, 2011 (ID#7713)	Yes	Closed (2011)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
	<p>Air Quality Regulation Schedule 3 standards, ministry's ambient air quality criteria and proposed Canada Wide Standards for: Carbon Monoxide (CO), Nitrogen Oxides (NOx), Particulate Matter - Total Suspended Particulates (TSP) as well as PM10 and PM2.5, and selected Volatile Organic Compounds (VOCs);[1]</p> <p>b) Assessment of the study area, as determined in condition 5.1, consisting of a comparison between the background contaminant concentration levels and anticipated contaminant concentration levels resulting from the project, including future traffic volumes;[2]</p> <p>c) A broad-based air quality impact mitigation plan which will assist in reducing contaminant concentrations that exceed appropriate criteria/standards expected to result from construction/implementation of the project;[3]</p> <p>d) Development of project contaminant emission rates using a base year and future years as required[4]</p> <p>e) Use of appropriate Emission and Dispersion Models (e.g. Mobile 6, US EPA CAL3QHCR, Aermoc);[5]</p> <p>f) Use of five years of meteorological data (including surface and upper air data);[6]</p> <p>g) Definition of roadway links as necessary;[7]</p> <p>h) Calculation of predicted contaminant</p>							

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
	concentrations at nearby sensitive receptors:[8] i) Traffic volume data[9] j) Detailed presentation of predicted data (including model input data); and,[10] k) Presentation of conclusions and recommendations.[11]							
18	6.0 Complaints Protocol 6.1 Prior to construction the Proponent shall prepare a Complaints Protocol on how it will deal with and respond to inquiries and complaints received during the construction and operation of the undertaking. The Proponent shall submit the protocol to the Regional Director, District Manager, Town of Markham, Town of Richmond Hill and the City of Vaughan for review and comment. The Complaints Protocol shall be placed on the Public Record.	York Region/Contractor	Design	Status – Completed	Letter from YRRTC to MOE – October 1, 2009 (ID# YH2-002) Letter from MOE to YRRTC – November 12, 2009 (ID# YH2-003)	Yes	Closed (2013)	
19	7.0 Amending the Design of the Undertaking 7.1 If the Proponent determines that there is a minor modification and that modification does not alter the expected net effects of the undertaking, the procedure set out in section 11.5 in the EA applies to this modification. [1,2] 7.2 Notwithstanding condition 7.1, section 11.5 of the EA does not apply where there is a change to the undertaking within the meaning of section 12 of the EAA. [3] 7.3 The Proponent shall consult with EAAB to determine the appropriate steps if there is uncertainty as to application of conditions of approval 7.1 or 7.2.	York Region	Design	Status – Closed. This item is being tracked under Items 67 and 68 of this Annual Compliance Report	Refer to Items 67 and 68 of this Annual Compliance Report.	Yes	Closed (2011)	

Section 2.0 - Monitoring of Conditions of Approval						Compliance Review		
Item	MOE Condition of EAA approval	Responsible person / agency	Stage condition will be addressed	Status and description of how the condition has been addressed	Compliance Document Reference	Status	Results	Notes
20	8.0 Selection of the optimum location for the subway alignment (not applicable for the undertaking covered under this CMP)	York Region	Design Stage	Status – Does not apply to the H2 segment.		Yes	Closed (2015)	
21	<p>9.1 If a Stage 2 archaeological assessment is required [1] to be prepared and aboriginal archaeological resources are encountered during the preparation of that Assessment, the Proponent shall provide a copy of that assessment to the Huron-Wendat First Nation of Wendake, Quebec and any additional relevant First Nations as identified by the archaeologist, based on the findings of that assessment.[2]</p> <p>9.2 The Proponent shall provide the Huron-Wendat First Nation of Wendake, Quebec and any other relevant First Nation as warranted by the Stage 2 findings with 30 days to provide comments on the Stage 2 [2] Assessment and the opportunity to reasonably participate in the Stage 3 Archaeological Assessment if the Stage 3 Archaeological Assessment is required in relation to aboriginal archaeological resources.[3]</p>	York Region	Design	Status – [1] Completed Status – [2] Ongoing Status – [3] Not required [2] Reports provided to Huron Wendat First Nation, awaiting comments. [3]. The Stage 2 report did not require Stage 3 assessment.	[1]Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294) [2] Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106) [3] Stage 3 Archaeological Assessment is not required as a result of the Stage 2 work	Yes	EF	[1] Item was closed in 2013. [2] Evidence provided supports that Huron-Wendat First Nation of Wendake, Quebec are provided the Stage 2 assessment and the opportunity to participate. It is noted that 30 days timeline was not met. There was no indication that other relevant First Nation were identified in the Stage 2 findings. [3] Item was closed in 2015

Section 3.0 – Compliance Management and Responsibilities					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during Construction	Compliance Document Reference	Status	Results	Notes
21-a	CMP Section 3.1: Roles of the Environmental Compliance Manager		Status 2016 – Complete As per MOECC letter dated April 1, 2016, it is not necessary to report on this item in the ACR.	N/A	Yes	Closed (2016)	
22	CMP Section 3.2.1 Following the execution of a contract for final design and construction, the design-build contractor will be responsible for all further actions to meet design-related commitments during its completion of the detailed design. Design solutions developed, including mitigation and consultation procedures followed will be subject to review and approval by York Region staff. The contract provisions will include a copy of the CMP, and special contract provisions will be added to ensure commitments outlined in the CMP are fulfilled, including commitments to further studies and consultation as applicable	York Region / Contractor	Status – Completed	Project Agreement To Design, Build, And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments) (ID# Y2015-003) <ul style="list-style-type: none"> • Main agreement, Clause 22 • Schedule 1, Appendix A, Item 25 • Schedule 21, Section 2.8 	Yes	Closed (2015)	
23	CMP Section 3.2.2 - The Contractor will be responsible for meeting CMP requirements during construction. In accordance with stipulated contracting arrangements, the party contracted to carry out the construction will be required to meet all commitments related to the mitigation of construction effects while the Region or its consultants will monitor the contractor's actions.	York Region / Contractor	Status – Completed	Project Agreement To Design, Build, And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments) (ID# Y2015-003) <ul style="list-style-type: none"> • Main agreement, Clause 22 • Schedule 1, Appendix A, Item 25 • Schedule 21, Section 2.8 	Yes	Closed (2015)	
23-b	CMP Section 3.2.3 – Once construction is complete and rapid transit service operations commence on the project, York Region will assume responsibility for monitoring the effects of operations and maintenance in accordance with the CMP requirements.	York Region / Contractor	Status – Future work To be addressed during operations and maintenance.		Yes	AC	

Section 4.0 – Program Scope – General Commitments					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
24	CMP Section 4.1 - Ability of infrastructure design to maximize safety for vehicles and pedestrians [1] and of streetscaping plan to enhance corridor and community environment;[2]	York Region	<p>Status – Ongoing</p> <p>[1] Pedestrian Safety:</p> <ul style="list-style-type: none"> - Architectural: Drawings include platform (H2E-ARC-LAYOUT-200 to 202), canopy (H2WH2E-ARC-SEC-400, H2WH2E-ARC-DET-502) and guardrails (H2WH2E-ARC-SEC-401, H2WH2E-ARC-SEC-404, and H2WH2E-ARC-DET-500). Guardrails will resist certain loads, be free of sharp edges and will use tempered safety glass per specifications (3501 and 3805). Slip resistant porcelain platform tiles and cast iron tactical edge tiles will be used compliant to AODA (specification 3901); - Structures (Stations): Platforms will include barrier walls designed to the Ontario Provincial Standard for Roads and Public Works as shown on drawings H2WH2E-STS-CONC-304 through H2WH2E-STS-CONC-313 to protect pedestrians during operations. - Signals: Signal design will comply with the AODA standards for all applicable features such as pedestrian 	<p>[1] H2WH2E-ARC-LAYOUT-200 H2WH2E – Highway 7/Centre Street/Bathurst Street Plan – Typical Platform – Eastbound – August 2, 2016 (ID#8)</p> <p>[1] H2WH2E-ARC-LAYOUT-201 H2WH2E – Highway 7/Centre Street/Bathurst Street Plan – Typical Platform – Westbound – August 2, 2016 (ID#9)</p> <p>[1] H2E-ARC-LAYOUT-202 H2E – Centre Street/Bathurst Street Connection Plan – Typical Platform - August 2, 2016 (ID#5)</p> <p>[1] H2WH2E-ARC-SEC-400 H2WH2E – Highway 7/Centre Street/Bathurst Street Connection Sections – Typical Canopy Cross Section – August 2, 2016 (ID#10)</p> <p>[1] H2WH2E-ARC-DET-502 H2WH2E – Highway 7/Centre Street/Bathurst Street Plan Details – Miscellaneous – August 2, 2016 (ID#7)</p> <p>[1] H2WH2E-ARC-SEC-401 H2WH2E – Highway 7/Centre Street/Bathurst Street Connection Sections – Platform Cross Sections – August 2, 2016 (ID#11)</p> <p>[1] H2WH2E-ARC-SEC-404 H2WH2E – Highway 7/Centre Street/Bathurst Street Sections – Longitudinal Sections Through Ramp – August 2, 2016 (ID#12)</p> <p>[1] H2WH2E-ARC-DET-500 H2WH2E – Highway 7/Centre Street/Bathurst Street Plan Details – Typical Crosswalk and Bullnose Details – August 2, 2016 (ID#6)</p> <p>[1] Section 3501 – Misc. & Metal Fabrications (Guardrails) (ID#13)</p> <p>[1] Section 3805 – Glazing (Guardrails) (ID#14)</p> <p>[1] Section 3901 – Tiling (Tactile Edge Tiles) (ID#15)</p> <p>[1] H2WH2E-STS-CONC-Ninety Percent (90%) Design Development Submittals_Stations Platforms Concrete – July 21, 2016 (ID#16)</p> <p>[1] H2E-CIV-NC-300 to 306 – H2E-Centre Street – Civil Works – New Construction Typical Sections (ID#88)</p> <p>[1] H2E-CIV-PM-101 to 104 – H2E-Centre Street – Pavement Markings and Signage (ID#89)</p>	Yes	EF [1] AC [2]	<p>Item [1]: The following documentation supports the assertion that pedestrians and vehicle safety was considered:</p> <ul style="list-style-type: none"> 201 - emergency call and CCTV 401 – handrails and guardrails 400 – concrete barrier wall 18 - 60% Safety Audit results <p>Item [2]: Streetscaping plan to enhance corridor and community environment is accepted as under development</p>

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			<p>crossings. Bike signals will also be provided where multi-use path crossings occur. The traffic signal design and final Transit Operation Design Review Report is underway.</p> <ul style="list-style-type: none"> - Civil: Conversion of on road bike path to off road bike path on Centre Street from Dufferin to Bathurst Street, and on Bathurst Street (H2E-CIV-NC-300 to 306, H2E-CIV-PM-100-104). - Streetscape: The streetscape design will include raised and curb separated bike lanes, bike boxes, AODA compliant pedestrian ramps and tactile pavers per the Project Agreement. The streetscape design is underway. <p>[1] Vehicle Safety: A safety audit found that 60% design submittals complied with the requirements for safety of traffic and pedestrian circulation and access during rapid transit operations. Design safety reviews will be undertaken on an ongoing basis through the duration of the design phase.</p> <p>[2] Opportunities for planting in the corridor (raised median</p>	<p>[1] 60% Design Review: CIMA Safety Audit (ID#18)</p> <p>[1, 2] Project Agreement To Design, Build And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments)</p> <ul style="list-style-type: none"> • Schedule 15, Part 2, Article 5 (ID#17) 			

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			planters and boulevard planters) are being incorporated into the design, and are being maximized through coordination with utilities. The streetscape design is underway.				
25	CMP Section 4.1 - Application of design standards that permit future conversion to LRT technology;	York Region	Status – Ongoing Project specifications require design consistent with existing, operational corridors. Designs from these existing corridors are considered 'Indicative Designs' and account for future conversion to LRT technology.		Yes	AC	It is accepted that Project specifications require design consistent with existing, future conversion to LRT technology.
26	CMP Section 4.1 - Effectiveness of infrastructure design[1] and service plans in enhancing connectivity to local and inter-regional transit services:[2]	York Region	Status – Ongoing [1] [2]. The York Region Transportation Master Plan sets out the infrastructure and policy requirements to build and maintain an interconnected system of mobility. This project forms an integral part of the plan, which was recently updated in November 2016.	http://www.york.ca/wps/portal/yorkhome/yorkregion/yr/plansreportsandstrategies/transportationmasterplan/transportationmasterplan/!ui/p/a1/jZDBTsMwDlafZYceabyroFbKIK03VRuZL2gDLK0KEuiJKwST09acUGCDZ9s_59l_0YdYqiT_DRIHgajuZrgbv1SkceK0gbqdoVLINCSoisw4KalwC4C8EcQuDRf_2NB5rbIVqLO8tBfDfpgELOKa--ENS54rt98cDwlOQiPWEy1n4TZw5H7INyEn1GeUTefkWWrNV2WUANiMVQPXvN-j-kSywCOGTfwJIHRKdSmf381B3R-2sclTlxEE649MPFdh-C9bcJJDCOYyqNkUqkrzyB3yZ64wNIP0Bkj-xzc3dTvefqtCGLxRcj6qpl/dl5/d5/L2dBISEvZ0FBIS9nQSEh/#.WFhzyNUrKpo	Yes	Closed (2016)	It is accepted that Project is integrated via the TMP. This item is closed.
27	CMP Section 4.1 - Simulation of intersection performance to verify transit service reliability and effects on general traffic	York Region	Status – Ongoing Preparation of a Transit Priority Measure Report is underway. The report will summarize the results of the simulation being undertaken.		Yes	AC	

Section 4.0 – Program Scope – General Commitments					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
28	CMP Section 4.1 - Stage 2 Archaeological Assessment	York Region	Status –Completed	[1] Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294)	Yes	Closed (2015)	
29	CMP Section 4.1 - Inclusion of measures to mitigate construction effects on residences, businesses, road traffic and pedestrians in contract specifications	York Region	Status – Completed	[Project Agreement To Design, Build And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments) (ID# Y2015-003) • Schedule 15, Part 2, Article 7	No	Closed (2015)	
30	CMP Section 4.1 - Opportunities to obtain input from affected communities, First Nations and heritage associations;	York Region	Status - Completed- Refer to Item 56 for ongoing opportunities to obtain input.	Public Meeting June 9 and 10, 2010 (ID # 6220) Poster (ID# 6220) Newspaper advertising (ID# 6219) Presentation (ID#6158) Have Your Say Results; Viva presentation held June 9 & 10 (ID# 3330) EA Compliance Monitoring Program August 2008 (ID# 3683) EA Compliance Monitoring Program August 2008 (ID# 3683) York Region letter of submission of final CMP Y2H3 4.7 (ID# 4157, 4158) MOE Compliance Monitoring Program letter of approval (ID# 3706) Hwy 7 EA compliance 2010-H2-Draft to OE-2010-10-28.doc (ID#6594)	Yes	Closed (2015)	
31	CMP Section 4.1 - Inclusion of built-in attributes to mitigate adverse effects in design solutions;	York Region	Status – Completed See Appendix 1 for monitoring for Built In Attributes		Yes	Closed (2016)	This item will not be updated so closed as Appendix 1 is updated and reported on.
32	CMP Section 4.1 - Adoption of design solutions that mitigate effects on surface water quality [1] and quantity [2] and aquatic habitat [3] at watercourse crossings;	York Region	Status – Ongoing [1] A detailed hydraulic analysis was conducted to calculate pre- and post-development conditions flow at various crossing locations. The analysis concluded that the quantity of runoff from the improved section of roadway will not result in a significant increase in runoff, as such, specific techniques to reduce the quantity and rate of runoff is not required (Section 3.1.3 and Appendix D). [2] The following measures, as recommended in the Drainage Design	[1, 2] Drainage Design Report for vivaNext H2-West and H2-East – September 13, 2016 (ID#19) [3] DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) (D#64) [3] H2W-CIV-C1-100, 101, 102 and 104 H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20)	No	[1,2] EF [3] AC	Item [1,2]: The document provided ID#64 and ID#20 support the assertion regarding quality and quantity. [3] Aquatic Habitat – accepted that work is underway

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Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			<p>Report, will be incorporated into the design:</p> <ul style="list-style-type: none"> - Existing oil / grit separators will continue to treat runoff (Section 3.1.4); - New oil / grit separators will be provided to treat runoff before discharging to receiving outlets (Section 1.1.3 and Table 3); - Existing roadside ditches will be maintained where possible (Section 3.1.4); - Permeable pavers located on both sides of the roadway (Sections 1.1.3 and 3.1.4); and - Approximately 2.35 m wide landscaped planter strip (Section 3.1.4). <p>[3] A Self-Assessment of Culverts C1, C7 and C4 determined that a DFO Project Review would be required based on various criteria including channel modifications and changes to footprint below high water mark. No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. Preparation of Project Review documentation for submission to DFO is underway. Channel design of the Humber River Tributary at Culvert C1 is based on an approach to improve watercourse stability and support aquatic habitat at the road crossing. Improvement is provided by the proposed riffle-pool design, energy dissipation pool design, stone sizing, and the restoration plans (H2W-CIV-C1-100, H2W-CIV-C1-101, H2W-CIV-C1-102, and H2W-CIV-C1-104). A Geomorphology Report is being prepared.</p>				
33	CMP Section 4.1 - Procedures to obtain regulatory approvals and input from municipal departments.	York Region	Status – Complete Procedures to be followed are included in Design-Build-Finance Project Agreement.		Yes	Closed (2015)	

Section 4.0 – Program Scope – General Commitments					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
34	CMP Section 4.2 – In general terms commitments to be monitored include ... Contractor compliance with the measures stipulated in the technical specifications and contract conditions to mitigate construction effects on the natural environmental features within the influence of the works; (Refer also to Section 5 – Table 5.2 below for specific items to be monitored)	York Region / Contractor	Status – Ongoing Daily inspections are undertaken during construction activities to monitor compliance for the mitigation of construction effects on natural environmental features. For example, should a spill occur, it will be mitigated, remediated and documented per specifications / contract conditions. There were no non-conformances documented during the reporting period and therefore the technical specifications and contract conditions were in compliance. Refer to Table 5.2 for specific items to be monitored.	Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76) Environmental Release Log, dated September 26, 2016 (ID#78)	Yes	EF	The documentation provided supports the assertion that monitoring of environmental conditions is occurring.
35	CMP Section 4.2 – In general terms commitments to be monitored include ... Contractor compliance with the measures stipulated in the technical specifications and contract conditions to mitigate construction effects on community activities such as pedestrian and vehicular circulation, access [1] and ambient noise and air quality levels [2]; (Refer also to Section 5 – Table 5.2 below for specific items to be monitored)	York Region / Contractor	Status – Ongoing [1] Pedestrian and vehicular traffic are maintained during construction activities through preparation of traffic management plans and work plans. Pedestrian and vehicular circulation are monitored by the site supervisors and modified should improvements be necessary. [2] Daily inspections are undertaken during construction activities to monitor compliance for mitigation on noise and air quality. Refer to Table 5.2 for specific items to be monitored.	[1] Memorandum #2016-04: 2016 Summary Memo – Traffic Management Plans and Permits, dated October 4, 2016 (ID#79) [2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1] ENF [2] EF	[1] Monitoring of pedestrian and vehicular circulation /access. While documentation showing traffic management plans (ID#79) are prepared, there is a lack of evidence provided to support the assertion regarding monitoring of traffic and pedestrian access and circulation. ACTION: For 2017 ACR, please provide an explanation regarding monitoring and supporting documentation. [2] Ambient noise and Air quality: documentation (ID#76) show that these items are monitored weekly. Refer also to Section 5 – Table 5.2

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Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
36	CMP Section 4.2 – In general terms commitments to be monitored include ... Compliance, by all parties to construction contracts responsible for public safety and construction management and administration, with the procedures established to manage and mitigate effects on the natural or social environment of accidents or incidents during construction activities; (Refer also to Section 5 – Table 5.2 below for specific items to be monitored)	York Region / Contractor	Status – Ongoing All parties involved in construction activities are required to undergo the Project-specific Health and Safety and Environmental Orientation prior to commencing work activities. The Orientation Log identifies all subcontractors, consultants and individuals that have completed the training. The training includes an overview of emergency preparedness. A site-specific Environmental Emergency Preparedness Plan outlines contact information and procedures to follow in the event of an accident or incident. All vehicular accidents are reported and documented to track and mitigate (if any) causal effects from construction.	vivaNext BRT Expansion Project H2-West and H2-East - Site Safety and Environmental Orientation (ID#81) EDCO and Subcontractor Orientation Log - J40394 vivaNext H2 (ID#80) Environmental Release Log, dated September 26, 2016 (ID#78) Environmental Emergency Preparedness Plan, dated April 14, 2016 (ID#82)	Yes	EF	The documents provided (#80, 81 and 82) support the assertion that all parties are trained with respect to public safety and the procedures established to manage and mitigate effects on the natural or social environment of accidents or incidents during construction activities.
36-a	CMP Section 4.2 – In general terms commitments to be monitored include ... Compliance, by all agencies responsible for safety and operation and maintenance, with the procedures established to manage and mitigate effects on the natural or social environment of accidents or incidents during operation and maintenance activities. (Refer also to Section 5 – Table 5.3 below for specific items to be monitored)	York Region / Contractor	Status – Future work To be monitored during operation and maintenance				

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Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
36-b	CMP Section 4.3- Compliance, by all agencies responsible for design and operation, with the procedures established to manage and monitor the effectiveness of design attributes and built-in measures in mitigating any adverse effects of operations and maintenance on the natural and social environment; • Compliance, by all agencies responsible for safety and operation and maintenance, with the procedures established to manage and mitigate effects on the natural or social environment of accidents or incidents during operation and maintenance activities.	York Region / Contractor	Status – Future work To be monitored during operation and maintenance		Yes	AC	

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
37		The Proponent shall comply with all the provisions of the EA submitted to the MOE which are hereby incorporated by reference except as provided in these conditions and as provided in any other approvals or permits that may be issued. This also includes the summaries of commitments for additional work, built in attributes and monitoring identified in Tables 10.4-1 to 10.4-4 and Tables 11.3-1 to 11.4-2 of the EA and Proponent's letter and attachments dated May 5, 2006.	York Region	Status – ongoing completed A number of permits have been received for the Project. All conditions imposed by approvals issued by regulators will be adhered to. Refer to tables in Appendix 1 of this document for monitoring against Tables 10.4-1 to 10.4-4. Issues identified in Table 11.3-1 are monitored through Items 38 to 52. Issues identified in Tables 11.4-1 and 11.4-2 are provided in Tables 5.2 and 5.2 of this document. Refer to Appendices 2 and 3 for monitoring against responses to the Government Review Team and the Public registry.	vivaNext H2 BRT Expansion - H2 West, H2 East Project Approvals Matrix - June 3, 2015 (ID#87)	Yes	EF	The documentation provide supports the assertion that permits are identified and obtained. The tables to be completed are listed.
38	Fisheries and Aquatic Habitat	EA Reference - Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 1.1 - All culverts/ bridge modifications regarding potential Harmful Alterations, Disruption or Destruction of fish habitat, compensation under the Fisheries Act and identification of additional watercourses during the detailed design phase will be reviewed and approved by TRCA to ensure the compliance to their requirements.	York Region	Status – Ongoing Applications to TRCA either have been or will be made for work in or adjacent to several watercourses. TRCA application for Culvert C1 works was submitted on September 2, 2016. DFO Self-Assessment was carried out for Crossings C1, C7, and C4 (Highway 400 area). No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. Project Review documentation will be submitted DFO to verify there is no Serious Harm under Section 35 of the <i>Fisheries Act</i> .	Letter from EDCO to TRCA - Application for Crossing C1 at Highway 7, vivaNext BRT Expansion - September 2, 2016 (ID#63) DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) (ID#64)	Yes	[1] EF [2] AC [3] AC	The documentation provide supports the assertion that permits are identified and being obtained. [1] C1 – Application in progress [2] C4 – Project Review DFO [3] C7 – Project Review DFO

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
39		Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 1.2 - For the proposed crossing at Rouge River between Town Centre Boulevard and Warden Avenue, a meander belt analysis will be carried out, and a 100-year erosion limit will be determined during the preliminary & detailed design phases to meet TRCA's approval in determining the sizing of the bridge span.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
40		Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 1.3 - Discussion with TRCA carried out to determine if a HADD will occur at one culvert extension, and if so, to secure a Fisheries Act authorization.	York Region	Status – Ongoing DFO Self-Assessment was carried out for Crossings C1, C7, and C4 (Highway 400 area). No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. A Self-Assessment determined that a DFO Project Review would be required based on various criteria including channel modifications and changes to footprint below high water mark. Preparation of Project Review documentation for submission to DFO is underway.	DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) (ID#64)	Yes	EFC / AC	It is noted that TRCA is no longer making HADD determinations. As such, DFO is reviewing for Serious Harm. [1] C4 – Project Review DFO [2] C7 – Project Review DFO

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
41		Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 1.4 - Any proposed in-stream work and site-specific mitigation measures carried out as outlined in Table 7 of the Natural Science Report	York Region	<p>Status – Ongoing In water works are proposed at Culverts C1, C8 and C7. Culvert C1 corresponds to H8 of Table 7. An application to TRCA for works at Culvert C1 has been submitted:</p> <ul style="list-style-type: none"> • Fisheries timing windows: Note G11 of H2W-CIV-C1-103 and Note 11 of H2W-STC-C1-200 • Working in the dry: Note 7 of H2W-STC-C1-200 • Countersinking of the existing culvert is not applicable at Culvert C1. • Erosions and Sediment Control: H2W-STC-C1-200 <p>Culvert C7 corresponds to crossing C19 Table 7:</p> <ul style="list-style-type: none"> • Fisheries timing windows: Note 11 of H2E-STC-C7-200 • Working in the dry: Note 7 of H2E-STC-C7-200 • Countersinking of the existing culvert is not applicable at Culvert C7. The culvert extension will match the existing open footing. • Erosions and Sediment Control is being prepared. <p>Culvert C8 was not included in Table 7. Mitigation measures for C8, if required, will be determined through permitting discussions with the TRCA.</p>	<p>Letter from EDCO to TRCA - Application for Crossing C1 at Highway 7, vivaNext BRT Expansion - September 2, 2016 (ID#6)] C1 H2W-CIV-C1-103 H2W – Highway 7 Civil Works – C1 Culvert Erosion & Sediment Control Plan – August 8, 2016 (ID#47) H2W-STC-C1-200 H2W – Highway 7 C1 Culvert – Staging and Erosion and Sediment Control Plan – August 2, 2016 (ID#52) C7 H2E-STC-C7-200 H2E- Centre Street – Temporary Flow Passage System – August 2, 2016 (ID#90)</p>	Yes	EF	<p>For C1, documents provided (ID#47 & ID#52) support the assertion regarding Table 7 Item [2]: For C7, the documentation provide (ID#90) supports the assertion regarding timing windows. However, evidence was not found in the document provided regarding the working-in-the-dry constraint. ACTION: Add documentation to support working in the dry in 2017 ACR For C8 – C8 is included here but not the above. ACTION: Please clarify in 2017 ACR. Item [4] C4 – is not included here. ACTION: In 2017 ACR, please clarify why C4 (noted above), which has inwater works, is not included here.</p>

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
42	Vegetation and Wetlands	Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 3.1 – [1] Edge Management Plan and Tree Preservation Plans will be prepared during the detailed design to mitigate impacts to adjacent natural features, as well as the preparation of [2] detailed compensation and restoration plans to strive to provide for a net improvement to existing condition. [3] TRCA guidelines for Forest Edge Management Plans and Post-Construction Restoration will be followed.	York Region	Status – Complete [1] Status – Ongoing [2,3] [1] Tree Inventory and Preservation Reports / Plans have been prepared for the Project and include protection to mitigate impacts to existing trees. Refer to H2E-LND-TREE-002, H2E-LND-TREE-200, H2E-LND-TREE-500 and H2E-LND-TREE-501 of the H2-East Part 1 of 2 100% Design Development Submittal for examples of tree protection zones and light duty hoarding protection measures. [1] An Edge Management Plan was prepared to address forest removal at Culvert C1, the only forest edge to be impacted by the Project. The plan was prepared following TRCA guidelines for Forest Edge Management Plans [3]. [2, 3] A Terrestrial Restoration Plan was prepared to support the TRCA permit application at Culvert C1. The plan identifies shrub plantings and a tree restoration zone for replacement plantings (see Attachment 2 of the plan). The area of vegetation removal was determined by overlaying construction plans on top of vegetation inventories and the tree inventory. Discussions with the TRCA regarding vegetation removals are ongoing and restoration plans will be prepared if required as a component of permitting.	[1] 3rd Issue Tree Inventory and Preservation Report H2-East Segment – Part 1 of 2 Centre Street and Bathurst Street – August 9, 2016 (ID#21) [1] H2E-LND-TREE-One Hundred Percent (100%) Design Development Submittals_ Streetscape_Street Tree Preservation Plans_H2 East 1 of 2 – August 12, 2016 (ID#22) [1, 3] Technical Memorandum: Edge Management Plan – August 26, 2016 (ID#27) [2, 3] Technical Memorandum: Terrestrial Restoration Plan – Crossing C1 Inlet and Outlet Channels – Attachment 2 – August 30, 2016 (ID#28)	Yes	[1,2,3] EF	[1,3] Edge Management Plan – document (ID#27) supports the assertions. [1] Tree Preservation Plans – Documents (ID#21 and ID#22) were not found. ID#40 is an earlier draft of ID#21 and is sufficient to show progress on this item. ID#22 and ID#40 are examples of protection measures and re sufficient to show progress. This items remains ongoing until final documents provided. ACTION: For 2017 ACR, please update references. [2] Detailed compensation and restoration plans to strive to provide for a net improvement to existing condition: The document provided (ID#28) support the assertion regarding this item. [3] TRCA guidelines for Forest Edge Management Plans and Post-Construction Restoration will be followed. The document provided (ID#27) support the assertion regarding this item.
43	Groundwater Resources	Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 4.1 - In the event the shallow or upward groundwater movement becomes an issue due to the construction of subway during the detailed design stage, TRCA's hydrogeologist will be consulted.	York Region	Status – Does not apply to H2-West or H2-East segments This issue relates to the Spadina Subway Extension, which is the subject of a separate CMP.		Yes	Closed (2015)	

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
44		Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 4.2 - For wells that remain in use, if any, a well inspection will be conducted prior to construction to establish baseline conditions and to confirm the relationship of the widened roadway to existing active water well will not have an adverse effect on water quality [1]. If it does, a contingency plan will be developed [2]. In the event that wells are required to be closed, closure will proceed in accordance with O.Reg.903 of the Ontario Water Resource Act [3]. If the widened roadway has adverse effects on the active well on water quality, a contingency plan will be developed [4].	York Region	Status – Ongoing [1] Per EA Appendix D, Section 4.2.3 and 2.2.5, a large majority of wells historically documented are no longer active. A review of water servicing along the corridor identified 20 properties for which water servicing could not be confirmed. This list of properties was then compared to construction water taking areas. Only five properties were identified for which water servicing could not be confirmed within 500 m of the water taking areas. A review of current land usage from publically available sources indicates that given the current use of four of these properties, (i.e., shopping mall, strip retail mall, medical building, gasoline service station and vacant lot), ground water usage at these properties is highly unlikely and potential for impact of dewatering during construction on adjacent properties is also unlikely. Continue to investigate one location as due diligence. [2, 3, 4] No impacts to drinking water wells are anticipated.	Water Taking Report In support of Dewatering During Construction vivaNext H2 East and H2 West Bus Rapid Transit Expansion, Regional Municipality of York, Ontario – August 2016 (ID#29) Highway 7 Corridor & Vaughan North-South Link Public Transit Improvements Environmental Assessment Report – Appendix D: Natural Sciences Report – August 2005 (ID#30)	Yes	[1-4] EF	Items [1-4] Documents ID#29 and ID#30 support the assertion that impacts to wells are not anticipated and one well is being further investigated.
45		Chapter 11, Table 11.3-1, Appendix D CMP I.D. # 4.3 - For subway extension, a subsurface investigation will be conducted during preliminary and detail design to identify groundwater and soil conditions. Impact assessment and mitigation measures will be performed at that time to address any issues related to groundwater quality and quantity	York Region	Status – Does not apply to H2-West or H2-East segments This issue relates to the Spadina Subway Extension, and is the subject of a separate CMP.		Yes	Closed (2015)	

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
46	Surface Water Resources	<p>Sect. 9.6, Chapter 11, Table 11.3-1, Appendix D & G</p> <p>CMP I.D. # 5.1 - A detailed Storm Water Management Plan (SWMP) will be developed in accordance with the MOE's Stormwater Management Planning and Design Manual (2003) and Guidelines for Evaluating Construction Activities Impacting on Water Resources.[1]</p> <p>This SWMP will outline monitoring & maintenance commitments for SWM facilities constructed as part of this undertaking.[2]</p>	York Region	<p>Status – ongoing</p> <p>[1] Development of a Storm Water Management Plan (SWMP) is underway and is being prepared in accordance with the MOE's Stormwater Management Planning and Design Manual (2003) and Guidelines for Evaluating Construction Activities Impacting on Water Resources. The preliminary SWMP is provided in the Drainage Design Report.</p> <p>[2] SWM facilities, such as, OGS units will be maintained and monitored annually as per product requirements, when accumulated sediment reaches 15% of the sediment capacity.</p>	[1, 2] Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes	[1,2] EF	Item [1]: Document ID#19 supports assertion that SWMP will be developed in accordance with MOE's Manual and Guidelines.
47		<p>Chapter 11, Table 11.3-1, Appendix D & G</p> <p>CMP I.D. # 5.2 - Water quality controls up to the MOE water quality guideline of Enhanced Level (80% total suspended solids removal) required for areas where an increase in impervious surface is observed[1].</p>	York Region	<p>Status – Completed</p> <p>[1] The Drainage Design Report indicates that to achieve Water quality controls up to the MOECC water quality guideline of Enhanced Level (80% total suspended solids removal), new oil / grit separator units in addition to the existing oil / grit separators are needed to treat the roadway runoff before discharging to outlets (Section 3.1.4). New oil / grit separators have been included in the design as shown on drawings H2E-CIV-NC-122 to 123, H2E-CIV-NC-126-127, H2E-CIV-NC-130 to 133 (ID#95). Further, the proposed continuity strip / planter and permeable pavers will enhance water quality treatment. These features are included in the streetscape design.</p>	<p>[1] Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)</p> <p>[1] H2E-CIV-NC-122 to 159 H2E- Civil Works – New Construction – August 10, 2016 (ID#95)</p>	TBD	[1] EF	Item [1]: Document ID#19 support the assertion regarding the enhanced level of treatment. However, this item is ongoing until design is finalized. ACTION: changes status to "Ongoing" in 2017 ACR

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
48		Chapter 11, Table 11.3-1, Section 9.6 CMP I.D. # 5.3 - An Erosion and Sediment Control Plan developed to manage the flow of sediment into storm sewers and watercourses [1] and to monitor erosion and sedimentation control measures during construction [2].	York Region	Status – ongoing [1] Erosion and sediment control measures will be in accordance with the Environmental Management Plan (EMP) Standards and Practices for Soil Erosion and Sediment Control. The plans will include erosion and sediment control installations necessary to manage the flow of sediment into storm sewers and watercourses. The erosion and sediment control measures are being designed in accordance with the Erosion and Sediment Control section of York Region's Road Design Guidelines. [2] During construction, daily inspections are undertaken to monitor environmental controls, including erosion and sediment control measures.	[1] H2E-CIV-ESC-90% Design Development Submittal – August 10, 2016 (ID#91) [1] 2 nd Issue Environmental Management Plan – May 11, 2016 (ID#101). [1] BWM-CIV-ESC-000 of the Bathurst Watermain IFC Drawing Package [2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1,2] EF	The documents provided show that there is an erosion and sediment control plan (ID#101 – says there will be a plan and minimum contents: which includes [1] and [2] and ESC shown on plans (ID#91). However document <i>BWM-CIV-ESC-000 of the Bathurst Watermain IFC Drawing Package</i> was not found ACTION: For 2017 ACR, please provide document [2] Document ID#76 supports that daily and weekly inspections of ESC are done.

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
49	Contaminated Soil	Chapter 11, Table 11.3-1, Proponent Response to Government Review Team Comments, Appendix F CMP I.D. # 7.1 - In the event contaminated sites are identified after construction activities begin, the contingency plan prepared to outline the steps that will be taken to ensure that contaminant release will be minimized and appropriate clean-up will occur[1]. The site clean-up procedure of the plan compliance with the MOE's Brownfield's legislation and the Record of Site Condition Regulation (O.Reg. 153/04) [2]	York Region	Status – Completed [1] Schedule 21 of the Project Agreement for Design-Build-Finance identifies the process to be followed in the event contaminated sites are identified after construction activities begin. It includes the requirement to promptly inform Metrolinx, develop an "investigation Plan" to assess the extent of impacts, prepare a "Remediation Plan", which includes steps to be taken to ensure that contaminate release will be minimized and appropriate clean-up occur (i.e., remedial options). [2] The Project Agreement includes the requirement to address impacted materials in general accordance with O.Reg. 153/04 standards, and that removal and disposal be undertaken in accordance with Environmental law. All impacted material removals will be documented in a "Remediation Report" upon completion of the "Remedial Plan" work.	[1, 2] Project Agreement To Design, Build and Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West and H2-East Segments) • Schedule 21, Sections 4.1 and 4.3 (ID#4)	Yes	Closed (2016)	[1] The document provided lists the steps to be taken to ensure that contaminant release will be minimized and appropriate clean-up will occurs [2] The assertion that the site clean-up procedures are required to be compliant with legislation is supported by the document provided. Note: COA is no longer current.
50		Chapter 11, Table 11.3-1, Proponent Response to Government Review Team Comments, Appendix F CMP I.D. # 7.2 - Health Canada's Federal Contaminated Site Risk Assessment in Canada will be obtained	York Region	Status – Completed Health Canada's Federal Contaminated Site Risk Assessment in Canada has been obtained.		Yes	Closed 2015	
51	Effects on Businesses and Other Land Uses	Section 9.1.8, Chapter11, Table 11.3-1 CMP I.D. # 9.1 - The parking need assessment and management study developed.	York Region	Status – Completed Commuter Park & Ride Strategy developed in 2009 and presented to Council.		Yes	Closed (2015)	

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
52	Archaeological Resources	Table 11.3-1 and proponent Response to Government Review Team Comments, Appendix J. CMP I.D. # 10.1 – [1] Completion of a Stage 2 Archaeological Assessment and procedure for continued consultation [2] with the Ministry of Culture. [3] Records of consultation with First Nations.	York Region	Status – [1,2] Completed Status [3], Ongoing [1,2] Stage 2 Archaeological Assessment completed, no further archaeological concern related to affected properties for H2. [3] Reports re-submitted to Huron Wendat First Nation for comment in 2016. Awaiting response.	[1] Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294) [2]Letter from Ministry of Tourism, Culture, and Sport, January 4, 2013, Re: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 2 Property Assessment, VivaNext H2 Preliminary Engineering, Highway 7 Corridor Islington Avenue to Yonge Street Connection, Road Public Transit Improvements, Former Townships of York, Vaughan, and Markham, York County, Regional Municipality of York, Ontario" (ID#9429) [3] Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106)	Yes	[3] EF	Items [1&2] were closed in 2015. No aboriginal archaeological resources were encountered during the Stage 2 assessment. [3] Documents provided, support ongoing consultation with First nations.
53	Agriculture	CMP I.D. # 12.1 - A policy to protect agriculture lands during construction will be developed during the detailed design phase.	York Region	Status –Does not apply to H2-West or H2-East segments Agriculture lands are not present within the H2 segment in accordance with the Appendix H Land Use Study Report of the Highway 7 and Vaughan N-S Environment Assessment 2005. See vivaNext website (www.vivanext.com/279).		No	Closed (2015)	

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
54	Others	Section 9.1.5 CMP I.D. # 13.1 - MTO will be consulted, and their approval will be sought in any modifications to the CAH bridges, and the grade-separated option (C-B2) through Hwy 404 interchange when required.	York Region/Contractor	Status – Not applicable to H2-West or H2-East segments The Highway 7 crossing of Highway 404 is not within the H2 segment limits		Yes	Closed (2015)	
55		Section 9.1.5 CMP I.D. # 13.2 - The Highway 427 Extension Preliminary Study will be obtained during detailed design once they are finalized. MTO will be consulted in the design of Highway 7 structure over Highway 427.		Status – Not applicable to H2-West or H2-East segments The Highway 7 structure over the proposed Highway 427 Extension is not within the H2 segment limits.		No	Closed (2015)	
56		CMP I.D. # 13.3 - Public concerns/ complaints will be address through public consultation centres during detailed design phase [1]. As well, public complaints protocols will address complaints regarding construction [2] and operations [3] of the transitway . The received concerns/ complaints will be circulated to appropriate department for action [4].		Status – [1, 4] Ongoing [2] is Completed [3] is Future [1] Public consultation centres are being held on an ongoing basis. [2], [3] Please see attached Community Liaison protocol regarding addressing project complaints. While this project is not yet in operation, the document does contain general protocol which can be applied to both construction and operations scenarios. [3] This is future work once operations begin. [4] Received concerns and complaints are relayed to the appropriate department via the Community Liaisons. The Community Liaisons will then work with the department to provide a response.	[1,2] Letter from YRRTC to MOE – October 1, 2009 (ID# Y2015-006) [1,2] Letter from MOE to YRRTC – November 12, 2009 (ID# Y2015-006) [2] Community Liaison Protocol (ID#32) 2016: [1] See 2016 CL Community Engagement v2 spreadsheet [2], [3] See Community Liaison protocol [4] See 'Transformer Relocation – 1102 Centre St' email for an example of correspondence with property owner	Yes	[1,4] EF [3] AC	Items [1] Do Public concerns/ complaints address through public consultation centres during detailed design phase: No assertion or documentation provided. Item [2] is closed. Item [3] It is accepted that complaints protocol for operations is "Future Work" Item [4]: The example provide supports the assertion regarding resolving issues.

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
57		Section 13.9.4 CMP I.D. # 13.4 - During the preliminary and detailed design phases, the Cycling and Pedestrian Advisory Committee (CPAC) will be consulted regarding the cyclist and pedestrian treatments.		Status – Does not apply to the H2-West or H2-East segments This commitment relates to the Highway 7 widening between Warden Avenue and Sciberras Road, which is a separate project by York Region. This is not within the limits of the H2 segment.		Yes	Closed (2015)	
58	Community vistas and street and neighbourhood aesthetics	Sections 9.6 and 10.4.2, and Proponent's Response to Government Review Team Comments CMP I.D. # 13 - Development of a comprehensive streetscaping plan to mitigate adverse effects on residential and pedestrian environment.	York Region	Status – ongoing Opportunities for planting in the corridor (raised median planters and boulevard planters) are being incorporated and maximized through coordination with utilities into the 90% Streetscape Plans currently underway.		Yes	AC	Accepted that streetscaping plans are underway
59	Traffic and Pedestrian circulation and access during construction	EA Section 10.6 and Proponent's Response to Gov't Section 9.6 and Proponent's Response to Gov't Review Team Comments CMP I.D. # 14 - Development of a comprehensive Construction and Traffic Management Plan [1] including consultation with school board officials to ensure safe, uninterrupted access to schools affected by the works.[2].	York Region/Contractor	Status – Ongoing [1] Traffic Management Plans are prepared to ensure pedestrian and vehicle circulation is maintained during construction activities. Access to adjacent properties, including schools, is considered in the preparation of the plans. For example, the Pedestrian Detour Plan contained in Appendix 3 of the Traffic Management Plan and Permit Memorandum illustrates maintenance to the Umca Rich Tree Academy property. [2] Consultation regarding Project works with school boards within project area is ongoing.	[1] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79) [2] Email – Area Manager for YRDSB and YCDSB, Aug 25, 2016 (ID#33)	Yes	[1,2] EF	Item [1], the document ID#79 provided (ID#79) shows supports the assertion that lane closure plans e prepared, however it is not a comprehensive plan as per the requirement. Document ID#79 mentions Traffic Quality Management Plan (TQMP) and the Traffic Management Plan. ACTION: For 2017 ACR provide appropriate documents for comprehensive plan. [2] Document ID#33 supports the assertion regarding consulting with schoolboards.

Section 5.0 - Actions Required to Address Commitments- Table 5.1 Monitoring During Design						Compliance Review		
Item	Environmental Element	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
60	Safety of traffic and pedestrian circulation and access during rapid transit operations	Section 9.6 and Government Review Team Comment response CMP I.D. # 15 - Infrastructure design features, built-in safety measures and operating procedures adopted in the preparation of the detailed design solution.[1] Analysis of the need for speed limit reductions to address safety concerns.[2] Inclusion of numerical countdown pedestrian lights in detailed design.[3]	York Region	Status – ongoing [1,3] Status – complete [2] [1] Refer to Item 24. [2] Regional Council has approved speed limit reductions on all vivaNext corridors, [3] Preparation of the 90% traffic signals design is underway, which will include numerical countdown pedestrian lights at intersections.	[2] Council Report on Speed Limit Reductions, April 21, 2011 (ID# YH2-009)	Yes	[1] Closed [2] Closed [3] AC	Item [1] Agree that Item 24 applies. ACTION: This requirement status should be changed to “Completed” since it will not be meaningfully updates as the requirement is more comprehensively tracked in Item 24. Item [2] The document provided shows that speed limit reductions where considered and adopted. This item is closed. Item [3].
61	Interface with MTO future 407 Transitway undertaking	Proponent's Response to Government Review Team Comments CMP I.D. # 17 - Consultation with MTO staff during the detailed design and construction phase to provide coordination and ensure protection for appropriate interface between projects.	York Region	Status – Future Work The only interface with the proposed 407 Transitway is at Bathurst Street. Design will not preclude a future station at Bathurst Street/Highway 7 and future pedestrian connections between the 407 Transitway, Bathurst Street vivaNext station and the proposed commuter parking lot. However, MTO is not proceeding with the Transitway at this time, therefore no consultation is anticipated on this matter.		Yes	Closed (2016)	Item [1] Agree that Item 24 applies. ACTION: This requirement status should be changed to “Completed” since it will not be meaningfully updated as MTO undertaking 407 transitway in any meaningful way is not expected within the timeframe of design and construction.

Section 5.0 - Actions Required to Address Commitments - Table 5.2 Construction Monitoring												Compliance Review (MMM)		
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).					Contractors Notes				
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
62	Noise generated by construction activities	To ensure noise levels comply with Municipal by-laws and construction equipment complies with NPC-115 noise emission standards.	Site measurements of levels produced by representative equipment / activities [1]	At time of introduction of equipment/ activities producing significant noise level with potential to disturb sensitive areas.[2]	Request for noise by-law exemption to allow for extended construction hours.[3]	Region of York, April 5, 2016 Town of Richmond Hill, January 13, 2016	-Notify a) businesses & landowners within a specified radius b) York Regional Police -Minimize unnecessary noise -Plan travel routes to avoid noise sensitive areas -No construction on Sundays or Statutory Holidays (Region of York) -Temporary noise barriers	Region of York, April 5, 2016 Town of Richmond Hill, January 13, 2016	CPG 2016	Status - Ongoing Noise measurements were collected prior to construction (baseline) and during construction when activities peaked with the loudest and most machinery operations on site. Weekly noise inspections are completed and signed by an Environmental Inspector to ensure noise controls are maintained during construction activities.	Memo #2016-02: 2016 Summary Memo - Noise By-law Exemption (ID#83) Memo #2016-01: 2016 Summary – Env. Site Inspection Sept 29, 2016 (ID#76) Baseline Noise & Vibration Report - Jun 28, 2016 (ID#84) Construction Noise Monitoring Report - Aug15, 2016 (ID#85)	Yes	EF[1] ECF[2] EF[3]	Item [1] Document (ID#84 & ID#85) supports that noise measurements were undertaken at representative sites. Item [2] Monitoring does not appear to be undertaken on equipment, it was undertaken in representative areas with directional drilling, excavating and other activities. [3] Noise By-law exception supported by document ID#83)

Section 5.0 - Actions Required to Address Commitments - Table 5.2 Construction Monitoring										Contractors Notes		Compliance Review (MMM)		
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
63	Effect of construction activities on air quality(dust, odour.)	To confirm that local air quality is not being adversely affected by construction activity	Regular inspections of site dust control measures and of construction vehicle exhaust emissions[1]	Monthly during construction seasons.[2]	None	Not applicable	Not applicable	Not applicable	CPG 2016	Status - Ongoing Weekly dust and air inspections are undertaken by the Environmental Inspector to ensure that the site is not excessively dusty and the air quality is satisfactory. This includes checking that paved areas are free of soil and no idling of equipment when not in use.	Memo #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1,2] EF	Item [1,2]: The document provided (ID#76) supports that monitoring is done weekly.
64	Condition of heritage homes adjacent to transitway alignment	To determine if any damage/deterioration is due to construction activity	Pre-construction inspection to obtain baseline condition and monitoring during nearby construction	As required by construction schedule for work adjacent to heritage features.	None	Not applicable	Not applicable	Not applicable	CPG 2016	Status – Ongoing No major construction activities have occurred in areas where heritage homes are located adjacent to the transitway alignment.		Yes	AC	It is accepted that construction has not started
65	Effect of construction on water quality and quantity in watercourses	To confirm that water quality is not being adversely affected by construction activity	Monitor sediment accumulation after rain events during construction to ensure that the proposed mitigation measures in the Erosion and Sediment Control Plan have been satisfied.[1]	After first significant rain event [2]	None	Not applicable	Not applicable	Not applicable	CPG 2016	Status – Ongoing [1] Implementation of measures in the Erosion and Sediment Control Plan and monitoring occur through the daily site inspections	Memo #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO,	Yes	[1,2] EF	Item [1,2]: The document provided (ID#76) supports that monitoring is done.

Section 5.0 - Actions Required to Address Commitments - Table 5.2 Construction Monitoring										Contractors Notes		Compliance Review (MMM)		
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
										completed by the Environmental Inspector. [2] Prior to a rain / storm event, controls such as silt filter cloths in catchbasins are inspected to ensure they are functional.	dated September 29, 2016 (ID#76)			

Section 5.0 - Actions Required to Address Commitments - Table 5.2 Construction Monitoring										Contractors Notes		Compliance Review (MMM)		
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66	Effect of construction on boulevard trees	To ensure the survival of boulevard trees	Inspection of protective measures and monitoring of work methods near trees{1}	Prior to commencement of work and bi-weekly during work activities.[2]	None	Not applicable	Not applicable	Not applicable	CPG 2016	Status – Ongoing Tree inventory and preservation plans have been prepared for the protection of trees that remain on-site during construction activities. Tree protection measures have been implemented on site. [1, 2] Daily environmental inspection is completed to ensure that tree hoardings are installed per the Tree Preservation Plans, there is an appropriate buffer and that the hoarding remains functional (i.e., free of rips).	Memo #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID# 76)	Yes	[1,2] EF	Item [1,2]: The document provided (ID#76) supports that monitoring is done.

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-a (was 501)	Noise generated by operation and maintenance activities	To ensure noise levels comply with Municipal by-laws	Pass-by and idling measurements of levels produced by representative vehicles/ activities	Initially after revenue service is introduced and in response to concerns or after any major increase in service frequency						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-b (was 502)	Effect of rapid transit operations on local air quality (pollutants, odour)	To confirm that local air quality is not being adversely affected by transit vehicle activity at terminals/ facilities	Regular inspections of measures and of transit vehicle exhaust emissions	Initially after facilities are placed into service and at five-year intervals during vehicle life						Status - Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-c (was 503)	Effect of rapid transit operations on GHGs emitted per commuting person-trips	To assess the effectiveness of improved public transit as a commuting choice in reducing GHG emissions in the corridor	Ridership growth surveys and transit mode split data analysis to derive GHG emission reductions.	Findings to be included in the Annual Compliance Reports						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-d (was 504)	Condition of heritage homes adjacent to transitway operations	To determine if any damage/deterioration is due to vibrations produced by transit vehicles	Post-construction inspection to obtain baseline condition and monitoring during pass-by operations	Initially after revenue service is introduced and in response to concerns or after any major increase in service frequency						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-e (was 505)	Traffic Operation	To confirm that the traffic operation is not adversely affected	Post-construction traffic study	Initially after revenue service is introduced and at a regular interval afterward						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-f (was 506)	Effect of snow and ice removal on water quality in corridor watercourses	To confirm that water quality is not being adversely affected by transitway and vehicle maintenance activities	Monitor sediment accumulation in storm water management facilities	During major storm events up to five times per year						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-g (was 507)	Effect of operations and maintenance on boulevard trees	To ensure the survival of boulevard trees	Inspection of protective measures and monitoring of work methods near trees	Annually						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-h (was 508)	Effect of operations of RT on intersection operation and access to minor side streets and properties along Yonge Street using U-turns	To ensure acceptable level of service at intersections and accessibility to minor side streets and properties along Yonge Street	Monitor intersection performance and conflict potentials. Prohibit Right Turns on Red movements from the side street at these locations if necessary	Initially after introduction of RT service and during the Region's regular assessment of intersection performance						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-i (was 509)	Effect of RT operation and intersection modifications on traffic infiltration through neighbourhood roads	To identify any increase in the use of neighbourhood roads by non-resident traffic as an alternative to left turn access restrictions	"Before and after" traffic volume observations on affected roadways to determine any change in infiltration levels	Before commencement of construction [1]and six months after introduction of RT service [2]						Status: [1] Ongoing [2] Future work [1] Intersection and driveway counts were collected to support development of detailed design and to establish baseline traffic volumes. Traffic count information will be provided in the Permanent Condition Traffic Report. [2] To be addressed during operation and maintenance		Yes	AC	Item [1] assertion is accepted with respect to providing counts in the mentioned reports Item [2] will be reviewed after commencement of Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-j (was 510)	Increased mobility choice due to rapid transit service introduction and local transit connectivity	To verify the convenience of the inter-connection between rapid transit service and reconfigured local feeder service	Review of effectiveness of local service plans in terms of growth of transfers and response to customer requests/ complaints	After six months of RT service and annually thereafter						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-k (was 511)	Effect of RT operations on public safety in the right-of-way and in station zones	To confirm the effectiveness of safety measures incorporated in the transit infrastructure design and pedestrian access facilities	Review of accident reports and statistics to establish whether cause is transit related	In response to specific incidents as required and in Annual Compliance Reports						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-l (was 512)	Streetscaping, neighbourhood aesthetics and community vistas	To confirm that landscaping, station and transitway features continue to enhance the community environment in the corridor	Inspection of landscaping [1] by Region arborist and streetscaping features [2] by maintenance personnel	Twice annually or in response to specific complaints about plant health, graffiti, cleanliness						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-m (was 513)	Provision of median crossing for Emergency Response Services vehicles	To ensure the operation of the ERS vehicles	Obtain feedback from ERS staff on performance of access provisions	Initially after completion of access [1] facilities and through regular consultation with the emergency services [2]						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-n (was 514)	Utilization of Community Facilities	To confirm that rapid transit is increasing usage of facilities due to improved access	Obtain registration data from facilities served (up to three)	Review registration data annually for a period of 5 years after start-up						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
66-o (was 515)	Change in existing land use patterns to transit oriented development may not be attainable or may be inappropriate	To confirm that municipal development approvals and zoning are realizing the benefit of improved transit and encouraging development compatible with existing neighbourhoods	Monitor re-development activity to control overall increase in and type of development density	Review municipal data on redevelopment/ development levels annually for a period of 10 years after start-up						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 5.0 – Actions Required to Address Commitments - Table 5.3 Operations and Maintenance Monitoring										York Region's Notes	Compliance Review			
Construction and Compliance Monitoring					Specific information to be added by ECM with annual compliance reporting (for all cells in these columns).									
Item	Environmental Effect	Purpose of Monitoring	Monitoring Method	Monitoring Frequency	Changes to Mitigation Protection and/or Monitoring	Agency Responses and Dates	New Mitigation Protection and/or Monitoring	Date of Permit Approval or Authorization	Record of Compliance (ECM Signature and Date)	Status and Description of how commitments have been addressed during Construction	Compliance Document Reference	Status	Results	Notes
66-p (was 516)	Effect of an increase in business activity on the urban form	To determine whether business activity along the corridor increases and whether resulting intensification meets urban form objectives.	Monitor business activity, urban form and economic conditions in the corridor	Review building applications and permits and economic influences annually for 10 years after start-up						Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 6.0 – Modifying the Design of the Undertaking					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
67	<p>CMP Section 6.0 - In the event that there is a minor change to the design of the undertaking which does not adversely impact the expected net environmental effects of the undertaking, these changes will be considered minor and documented in the annual compliance report.</p> <p>CMP Section 6.0 – "... a required modification to the transitway alignment and station location in the area of the IBM campus in Markham has been identified. The modified alignment is a local refinement to the undertaking approved in the EA and an amendment report will be submitted specifically documenting the design modification."</p>	York Region	<p>Status – Ongoing</p> <p>Minor changes to the design of the undertaking in 2016 include:</p> <ul style="list-style-type: none"> - Replacement of the existing right turn lane at 57 North View Boulevard, which was planned for removal. Results in shift to Q2 retaining wall, elimination of planting / furnishing zone, and property requirements (ID#100). - Subject to approval, the BRT station configuration modified to accommodate two mirror stations at Bathurst Street and Highway 7 Connector intersection and associated full rapidway to Hwy 7 and left turn lane at carpool entrance (ID#97); - Subject to approval, the Bathurst Street and Centre Street intersection has been proposed to have 2-stage pedestrian crossings on east and west side crosswalks to improve time for transit buses (ID#99); - The road design at Bruce Street intersection was modified to reflect no BRT lanes passing through the intersection to avoid property impacts (ID#98); - Countersinking of Culvert C1 will not occur to maintain the existing culvert and to prevent a reduction in the culvert conveyance capacity (H2E-CIV-C1-100 to 102); and - There will be no wing walls on the extension of Culvert C1 in order to limit the design to within the ROW (H2E-CIV-C1-100 to 102). 	<p>H2W-CIV-C1-100, 101, 102 and 104 H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20)</p> <p>Variation Enquiry Bathurst Street Station VE009 – April 29, 2016 (ID#97)</p> <p>Variation Enquiry Revised Rapidway west of Helen St – May 19, 2016 (ID#98)</p> <p>Variation Enquiry VE008 – Two Stage Crossing at Bathurst and Centre VE008 – May 19, 2016 (ID#99)</p> <p>Variation Enquiry Property 26C – Design and Construction of Right Turn Lane VE011 – February 9, 2016 (ID#100)</p>	Yes	EF	Documents provided (ID#20 and ID#97-100) supports the reporting of minor design changes.

Section 6.0 – Modifying the Design of the Undertaking					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
68	CMP Section 6.0 - In the event that there is a change to the design of the undertaking that results in a material increase in the expected net environmental effects of the undertaking, the process set out in the CMP for modifying the design of the undertaking (including submission of an amendment report to the MOE) will be followed.	York Region	Status- Ongoing No changes requiring a major amendment have been identified. See also item 19 above.		No	AC	The statement is accepted.

Section 7.0 – Consultation					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Yes	Results	Notes
69	CMP Section 7.1.1- [1] One "Open House" format public consultation opportunity on completion of the preliminary design development work for each segment of the transitway planned for construction as a stand-alone component of the project implementation. The open house will take place at a location within the limits of the segment to be implemented and [2] the design solution presented and modified as necessary to address public comment, will be the basis for the detailed design.	York Region	Status – Completed H2 Conceptual Design "Open House" public consultations were held on June 9 and 10, 2010. Opportunities for the public to comment were provided. Public meetings were held at the completion of preliminary design (encompassing H2 including for H2-VMC) on November 27 and 28, 2012. Public meetings were held at two locations (west and east) in the study corridor.		Yes	Closed (2015)	
69-a	CMP Section 7.1.3 York Region Transit consults on a regularly basis with the public through Open Houses at which they provide information on planned system expansion and modifications and respond to questions and complaints concerning existing operations. These forums will provide the opportunity to inform the public of the results of monitoring of EA commitments as well as to obtain feedback from the public on the effectiveness of environmental mitigation measures incorporated into the design and operations of the undertaking.	York Region / Contractor	Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance

Section 7.0 – Consultation					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Yes	Results	Notes
69-b	CMP Section 7.1.3: At any time during operation of the undertaking, the public will have the opportunity to lodge complaints or make inquiries by contacting York Region Transit's Customer Service Representative by telephone or their e-mail contact service using the information provided on their website www.yrt.ca.	York Region / Contractor	Status – Future work To be addressed during operation and maintenance		Yes	AC	This item will be reviewed closer to and/ during Operations and Maintenance
70	CMP Section 7.2.1 - The findings of the Stage 2 Archaeological Assessment and any subsequent assessments will be [1] circulated to all affected stakeholders and First Nations that have asked to be kept informed of the outcome of any archaeological investigations during the design and construction phases. [2] The Region and/or designate will consult and respond to First Nations concerns regarding its findings on the Stage 2 Archaeological Assessment. [3] The Region and/or designate will obtain any necessary approvals and conduct any additional studies that may be required as a result of the findings and recommendations of the Stage 2 Assessment.	York Region	Status: [1] Complete, [2,3] Ongoing [1] The Stage 2 Archaeological (Property) Assessment Report was completed in February 2012. [2] MTCS provided a letter of concurrence on the Stage 2 Archaeological Assessment on January 4, 2013 [2] Reports provided to Huron Wendat First Nation, awaiting comments. [3] The Stage 2 report recommended that no further assessment is required unless unknown archaeological resources are discovered during construction. [3] No archaeological resources have been found during construction to date.	[1,3] Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294) [2]Letter from Ministry of Tourism, Culture, and Sport, January 4, 2013, Re: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report (ID#9429) [3] Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106)	Yes	Closed (2015)	
71	CMP Section 7.2.1 - The Region and/or designate will consult [1] and respond [2] to First Nations concerns regarding its findings on the Stage 2 Archaeological Assessment. The Region and/or designate will obtain any necessary approvals [3] and conduct any additional studies [4] that may be required as a result of the findings and recommendations of the Stage 2 Assessment.	York Region	Status – Ongoing [1,2] Reports provided to Huron Wendat First Nation, awaiting comments. [3,4] The Stage 2 report recommended that no further assessment is required unless unknown archaeological resources are discovered during construction. [4] No archaeological resources have been found during construction to date.	[1,2] Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106) [3,4] Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294)	Yes	[1,2] EF	Items [1,2]: Document H2WE-2016-106 supports consultation Items [3,4] Closed in 2015

Section 7.0 – Consultation					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Yes	Results	Notes
72	<p>CMP Section 7.2.2 - Notices of public consultation opportunities will be sent to First Nations that wish to be kept informed of the implementation of the undertaking. [1]</p> <p>Should First Nations wish to be kept informed of the study and any additional work the Region will consult and notify First Nations in the manner in which they wish to be notified and/or consulted. This could vary from sending notices to attending meetings. [2]</p>	York Region	<p>Status - Completed</p> <p>Hwy 7 EA Notice of submission of CMP for public review and comment. [1]</p> <p>Notices of "Open House" format public consultation opportunities will be provided through newspaper advertising, or as appropriate to meet the commitment.</p> <p>Notices of public consultation opportunities, including newspaper advertising, postcards, individual letters, etc.</p> <p>Further Open Houses for H2 Preliminary Design were undertaken in November, 2011</p> <p>[2]Notice of Stage 2 Archaeological Assessment finding were sent to the Huron-Wendat First Nation of Wendake, Quebec in February 2013</p> <p>[2] An information package was provided to the Huron-Wendat First Nation in November 2016.</p> <p>[2] No First Nation communities or individual members have contacted the project team to request to be kept informed of the study following circulation of the Archaeology Reports.</p> <p>Notices of public consultation opportunities have been advertised in local newspapers, the vivaNext website and via social media. If contact is received in future phases from any First Nation member or community requesting direct notification, they will be added to the study's contact list.</p>	<p>[1] Notice of Submission of CMP (ID# 4121) and CMP distribution lists to First Nations (ID# 4123)</p> <p>[2] Poster (ID# 6220)</p> <p>[2] Newspaper advertising (ID# 6219)</p> <p>[2]Notice of Stage 2 Archaeological Assessment finding to the Huron-Wendat First Nation of Wendake, Quebec in February 2013 (ID#0154)</p> <p>[2] Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106)</p> <p>Refer to Items 69 and 73.</p>	Yes	Closed (2015)	As items above regarding notification and consultation with First Nations remain open, this item can be closed to simplify reporting.

Section 7.0 – Consultation					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Yes	Results	Notes
73	CMP Section 7.1.2 - One "Open House" format public information centre prior to commencement of construction to present the construction staging and methods to be adopted including temporary works and methods to maintain traffic and pedestrian access and circulation, protect the existing natural and built environment and minimize noise, vibration and air pollution during construction	York Region / Contractor	Status – Completed Public meetings were held on November 27 and 28, 2012. Public meetings were held at two locations (west and east) in the study corridor. Public information booths were present at various community events throughout the corridor between May and late August 2016.	Public Meeting November 27 and 28, 2012 (ID# H2WE-2016-107): <ul style="list-style-type: none"> Newspaper advertisement tear sheet Newsletter and Canada Post delivery details Display panels (also at http://www.vivanext.com/files/PastMeetings/Highway7West_Vaughan/1211_Boards.pdf) Summary of PIC comment cards Webpage: vivaNext Past Community Events: http://www.vivanext.com/community-events/ (ID#35)	Yes	Closed (2016)	Document ID# H2WE-2016-107 supports that more than one open house was undertaken that included items such as access and natural environment. This item is closed.
74	CMP Section 7.1.2 - Availability of a "Community Relations Officer" throughout the construction period to provide information to, consult with and respond to complaints from, property and business owners and the general public.[1] This Officer will prepare a protocol for dealing with and responding to inquiries and complaints during the construction [2] and subsequent operation [3]. The protocol will be submitted to the MOE for placement on the Public Record prior to commencement of construction.[4]	York Region / Contractor	Status – [1,2,4] Completed Status – [3] Future Work [3] The complaints protocol for operations will be developed prior to commencing service at the completion of construction..	[1] Community Liaison information at http://www.vivanext.com/highway-7-west-vaughan/ [2,4] Correspondence regarding Complaints Protocol (ID Y2015-006): Letter from YRRTC to MOE – October 1, 2009 Letter from MOE to YRRTC – November 12, 2009	Yes	AC	Items [1,2 &4] were closed in 2015. Item [3] (Complaints protocol for operations) is "future work" . This item will be reviewed closer to and/ during Operations and Maintenance

Section 8.0 – Program Schedule					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
74-a	<p>CMP Sec 8: The CMP will be conducted during the implementation of all segments of the EA Undertaking.[1] A preliminary schedule for each segment was provided in section 1. 1. Rapid transit operations will commence immediately after testing and commissioning of the systems and facilities. CMP activities programmed for each phase will be carried out throughout the implementation of the project [1] and will continue during operations and maintenance until it can be verified that all commitments relating to operational effects have been met. It is anticipated that a stable operating environment will be reached within three years of the commencement date by which time monitoring activities will have confirmed compliance and as such, will no longer be necessary.[2] Any commitments or conditions which require monitoring beyond the expected three year period will be verified at the appropriate time period during operations and the status of compliance will be recorded in the ACR.[3]</p>	York Region / Contractor	<p>2016 Status – Ongoing [1] The ACR will be provided to the MOECC annually. This condition will be addressed once all commitments have been met. Refer to Item 12.</p>	[1] Letter from MOECC acknowledging receipt of Response to 2015 ACR Comments from MOECC dated April 1, 2016 (ID#01).	Yes	EF	<p>Item [1] Ongoing reporting is document in Item 12 and does not need to be repeated here. This item is closed. Items [2] and [3] are future work and will be monitored in operation and maintenance phase.</p>

Section 9.0 - Submission and Circulation of the CMP					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
75	CMP Section 9.0 - In order to fulfill the Condition of Approval requiring submission of a CMP, this document [CMP] is submitted to the Director of the Environmental Assessment and Approvals Branch (EAAB) of the Ministry of the Environment for review and approval.	York Region	Status – Completed		Yes	Closed (2010)	
76	CMP Section 9.0 - Following approval it [CMP] will be provided to the Director for filing with the Public record maintained for the undertaking. [1] Accompanying the CMP submitted to the Director will be a statement indicating that the CMP is intended to fulfill Condition 3 of the Conditions of Approval. [2]	York Region	Status – Completed	[Yes	Closed (2011)	
77	CMP Section 9.0 - Additional copies [following approval] will be provided by the Proponent for public access as specified in condition of approval 2.1.	York Region	Status – Completed Refer to item 7 of this document		Yes	Closed (2011)	
78	CMP Section 9.0 - The CMP will be made available to agencies, affected stakeholders and/or members of the public who expressed an interest in activities being addressed in the CMP or being involved in subsequent work.	York Region	Status – Completed		Yes	Closed (2011)	
79	CMP Section 9.0 - Copies of the CMP will be provided to those agencies/interested groups identified in Table 11.3-1 of the EA. A notice will be sent to all other agencies involved during the EA and to other stakeholders who identified an interest by providing comments during public review of the EA or EA review. The notice will advise that the CMP is available on the Region's website or hard copy on request. A copy of the stakeholder list will be provided to MOE for the public record submission of the CMP and subsequent ACRs.	York Region	Status – Completed		Yes	Closed (2011)	
80	CMP Section 9.0 - The CMP will be available for public information on the Proponent's website at www.vivayork.ca	York Region	Status – Completed		Yes	Closed (2011)	

Section 10.0 – Annual Compliance Report					Compliance Review		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
80-a	<p>CMP Sec 10: The ECM will prepare an Annual Compliance Report (ACR) which describes the results of the Compliance Monitoring Program during the year preceding the submission of each ACR. A copy of the ACR will be submitted to the Directors of the Environmental Assessment and Approvals Branch and Central Region for placement on the Public Record. [1] The first ACR will be submitted in June 2009 with subsequent submissions in December of each year thereafter until the construction of the undertaking is complete and the rapid transit service has been operated for at least three years after the last segment is constructed.</p> <p>The ACRs may include adjustments to Tables 5.1, 5.2 or 5.3 of the CMP to accommodate any additional environmental effects or EA commitments which may have been inadvertently missed or which were revised and need to be monitored for compliance. [2]</p>		<p>2016 Status – Completed</p> <p>1] The ACR will be provided to the MOECC annually. This condition will be addressed once all commitments have been met. Refer to Item 12.</p> <p>[2] No adjustments have been made to Tables 5.1, 5.2 or 5.3 of the CMP.</p>	[1] Letter from MOECC acknowledging receipt of Response to 2015 ACR Comments from MOECC dated April 1, 2016 (ID#01).	Yes	Closed (2016)	<p>Item [1] Ongoing reporting is document in Item 12 and does not need to be repeated here. This item is closed.</p> <p>Items [2] is a permission to update the tables as needed. There is no requirement to report changes. This item is closed.</p>

Section 11.0 - Other Documents required by the Conditions of Approval					Compliance Review (MMM)		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Results		Notes
81	Ridership Monitoring Program: CMP Section 11.1 - York Region will prepare the results of its Ridership Monitoring Program as committed in Section 5.2.2.3 of the EA and EAA Condition 4.1.[1] The Ridership Monitoring Program will be provided to the City of Toronto, GO Transit, Ministry of Transportation, TTC, the Towns of Markham and Richmond Hill and the City of Vaughan for review.[2]	York Region	Status – Future work [1,2] The Ridership Monitoring Program described as part of this item is related to future conversion from BRT to LRT, which is expected to be considerably far in the future. Consultation will take place at that time.	[1,2] Correspondence from York Region to MOE, December 21, 2012 (ID# H2WE-2016-108)	Yes	EF	As per the 2012 ACR, the Ridership Monitoring Program is operational monitoring, which is Future Work. No further updates are expected until operational phase commences.
82	Technology Conversion Plan CMP Section 11.2 - A Technology Conversion Plan will be prepared to identify when and if conversion from a bus rapid transit (BRT) system to a Light Rail Transit (LRT) system will occur.	York Region	Status – Future work The potential future evolution from Bus Rapid Transit to higher capacity Light Rail Rapid Transit is not being planned at this time, and is ultimately dependant on significant growth in transit ridership and available funding in the future, and is not expected within the 2031 horizon. No Technology Conversion Plan will be finalized until new information on this issue becomes available.	Letter from York Region, April 3, 2012, responding MOE comments, April 3, 2012.(ID#8908)	Yes	EF	As per the 2012 ACR, the Technology Conversion Plan is an operational item, which is Future Work. No further updates are expected until operational phase commences.
83	CMP Section 11.2 - If conversion is found to be required prior to 2021, the Plan will include an implementation schedule.	York Region	Status – Future work Refer to Item 82		Yes	EF	
84	CMP Section 11.2 - The Ridership Monitoring Program and Technology Conversion Plan will be placed on the public record file at the EAAB and the MOE's Central Regional Office. A copy of these documents will also be provided to the City of Toronto, TTC, GO Transit, the Ministry of	York Region	Status – Future work Refer to Item 82		Yes	EF	

Section 11.0 - Other Documents required by the Conditions of Approval					Compliance Review (MMM)		
Item	Mitigation Measure / Commitment to be Monitored	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Results		Notes
	Transportation, the Towns of Markham and Richmond Hill and the City of Vaughan for review.						
85	Complaints Protocol CMP Section 11.3 - Prior to construction, the Region will prepare a protocol on how it will deal with and respond to inquiries and complaints received during the construction and operation of the undertaking [1]. The protocol will be submitted to the Central Region Director for placement on the Public Record [2].	York Region	Status – Completed [1, 2] The Community Relations Protocol addresses concerns/complaints received during design and construction. The complaints protocol for operations will be developed prior to commencing service at the completion of construction.		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-1 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review (MMM)			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE A: To improve mobility by providing a fast, convenient, reliable and efficient rapid transit service																		
A1 (a)	Maximize Inter-regional and local transit connectivity	Connections to inter-regional services and future gateways	✓		✓	Highway 7 & Highway 50	Opportunity to connect to a Brampton Rapid Transit Initiative "AcceleRide" to improve the inter-regional transit network.	Highway 7 transitway will provide a direct connection from western York Region to the Region of Peel. It also provides a direct connection from York University to the Region of Peel.	Increased potential for infill development around the regional boundary.	None	Positive effect	Monitor the ridership and the performance of the connection to the Region of Peel.	York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(b)		Connections to inter-regional services and future gateways	✓		✓	At 400 series highways, e.g. Highways 427, 400, 404 & 407	Opportunity to connect to MTO's future rapid transit services on the 400 series highways to improve the inter-regional transit network.	Highway 7 transitway will provide additional stations for transfers.[1]	Increased potential for infill development around these transfer points.	None	Positive effect	Monitor the ridership and the needs to provide additional stations as warranted by the future rapid transit services.[2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Detailed design includes provisions for a connection to a future Commuter Parking Lot at the Bathurst viva station. [2] This item relates to monitoring during operation	[1] H2E-CIV-NC-138 H2E-Bathurst Connection Civil Works – New Construction Plan and Profile – August 10, 2016 (ID#36)	Yes	[1] EF [2] AC	Item [1] Document ID#36 shows ramp. It is not clear how this drawing shows future Commuter parking lot. 2013 ACR included evidence of a parking lot being included in the design. ACTION: Include additional documentation to support parking lot inclusion in 2017 ACR. Item [2] accepted that this is an operational issues
A1 cont'd (c)		Connections to inter-regional services and future gateways	✓		✓	York University	Opportunity to connect to the City of Toronto and improve ridership on these transit services.	Vaughan North-South Link will provide a direct connection to the York University and to the future TTC rapid transit connecting the Toronto system prior the implementation of subway extension.	Increased potential for infill development around this transfer point.	None	Positive effect	Monitor the ridership and the performance of the connection to Toronto.	York Region	Status – does not apply to H2-West or H2-East Segments Connections to York University are via the Spadina Subway Extension.		Yes	Closed (2015)	
(d)	Maximize Inter-regional and local transit connectivity (cont'd.)	Connections to inter-regional services and future gateways	✓		✓	Proposed Richmond Hill Centre Intermodal Station	Better connection to GO Stations and future provincial inter-regional 407 Transitway station will improve ridership on all transit services	Highway 7 transitway will provide a direct connection to GO Rail's Richmond Hill Line at the proposed Richmond Hill Centre Intermodal Station [1]. It will also have a	Increased potential for infill development around Richmond Hill Centre Intermodal Station	None	Positive effect	Monitor ridership and the performance of the connection to GO Langstaff Station [4]	York Region	Status – [1] Completed Status - [2,3] Ongoing Status - [4] Future Work [1] Pedestrian bridge between the viva Richmond Hill Terminal and the Bala Go Rail Platform was constructed and opened for	[1] Aerial photograph (ID# H2WE-2016-109) [2] H2E-CIV-NC-158 H2E- Yonge Connection Civil	Yes	[2] EF [3] EF	Item [1] is closed Item [2] Yonge St. connection ramp is shown in document ID#37. Item [3] Document ID#36 shows ramp. Documents provided should be expanded to be clearer on connection to future 407 transit. ACTION: Include additional

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-1 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE A: To improve mobility by providing a fast, convenient, reliable and efficient rapid transit service																		
							connection to York's Yonge Street Transitway [2] and the future provincial transit corridor along Highway 407 [3].							use April 2008, improving connection to the Go Station. [2] The H2WE segment connects to the Yonge Street Transitway at the Richmond Hill Centre Terminal. [3] Detailed design includes provisions for a connection to a future Commuter Parking Lot at the Bathurst viva station. [4] Future work, following commencement of service	Works – New Construction Plan and Profile – August 10, 2016 (ID#37) [3] H2E-CIV-NC-138 H2E-Bathurst Connection Civil Works – New Construction Plan and Profile – August 10, 2016 (ID#36)			documentation to future 407 transit connection in 2017 ACR. Item [4] accepted that this is an operational issue.
A1 cont'd (e)		Connections to inter-regional services and future gateways	✓		✓	Unionville GO Station	Connection to Unionville GO Station will improve York's transit network. A pedestrian walkway will be provided to transfer the transitway passengers to the Unionville GO Station. This will provide a fast and reliable service from the future Markham Centre to the City of Toronto or northern York Region via the GO Rail's Stouffville Line.	Increased potential for infill development around this transfer point.	None	Positive effect	Monitor the ridership and the performance of the connection to Unionville GO Station.	York Region	Status – Does not apply to H2-West or H2-East segments The Unionville GO Station is not within the H2 study limits		Yes	Closed (2015)		
(f)		Compatibility with proposed local network	✓		✓	Entire Corridor	Inconvenient transfer between local transit and Highway 7 Rapid Transit may discourage transit ridership. Stations generally located on north-south local transit routes ensuring convenient transfers between services. Integrated fare system proposed.	Project may change the configuration of local transit.	Local services configured as grid where practical, to provide both community coverage and feeder roles	Positive effect	Regular review of effectiveness of local service plans.[1]	York Region	Status – Future Work Monitoring will be carried out following commencement of revenue service.		Yes	[1] AC	Item [1] accepted that this is an operational issues	
A2 (a)	Maximizes speed and ride comfort and	Grade at station in excess of LRT standard of max.	✓		✓	Eastbound platform on Highway 7 at	Running way grade at platforms is 2.49%. LRT should have the minimum	Minor retaining walls through station.	Incorporate safety barriers where required.	Significant		York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)		

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE A: To improve mobility by providing a fast, convenient, reliable and efficient rapid transit service																		
	minimizes safety risks and maintenance costs with an optimized alignment geometry.	1.0%.				Chalmers Rd./ South Park Rd.	climbing grade after stopping to load/unload passengers.	resulting in a vertical separation from adjacent traffic lanes if LRT technology is introduced.										
(b)		Grade at station in excess of LRT standard of max. 1.0%.	✓		✓	Westbound platform on Highway 7 at West Beaver Creek Rd./ Commerce Valley Dr. W	Running way grade at platforms is 2.13%. LRT should have the minimum climbing grade after stopping to load/unload passengers.	Grade through station will have to be modified locally resulting in a vertical separation from adjacent traffic lanes if LRT technology is introduced.	Minor retaining walls through station.	Incorporate safety barriers where required.	Significant		York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(c)		Grade at station in excess of LRT standard of max. 1.0%.	✓		✓	Both platforms on Highway 7 at East Beaver Creek Rd./ Commerce Valley Dr. E	Running way grade at platforms is 2.97%. LRT should have the minimum climbing grade after stopping to load/unload passengers.	Grade through station cannot be modified due to the close proximity of the next intersection.	Station grade exceeding desirable LRT maximum will remain.	None practical	Significant	Speed impact will be analysed during LRT system design.	York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(d)		Grade at station in excess of LRT standard of max. 1.0%.	✓		✓	Both platforms on Highway 7 at McCowan Road	Running way grade at platforms is 2.56%. LRT should have the minimum climbing grade after stopping to load/unload passengers.	Grade through station will have to be modified locally resulting in a vertical separation from adjacent traffic lanes if LRT technology is introduced.	Minor retaining walls through station.	Incorporate safety barriers where required.	Significant		York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
A3	Maximize operational efficiency of maintenance and storage facility	N/A - Maintenance & storage facility included in Yonge St. Corridor EA Undertaking.				N/A	N/A	N/A	N/A	N/A	N/A	N/A	York Region	Status –Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE A: To improve mobility by providing a fast, convenient, reliable and efficient rapid transit service																		
A4	Increase attractiveness of rapid transit service	Travel time and service reliability	✓		✓	Entire Corridor	Adjustments to signal timing to achieve progression and minimize delay to rapid transit.	Micro-simulation of rapid transit operation and general traffic movements during detailed design [1] will be used to optimize signal timing. Transit speed will be increased to maximum achievable with reasonable intersection operation.	Delay to transit or intersecting traffic may be unacceptable. May affect intersection capacity for general traffic movements.	Modification of intersection signal timing [2].	Moderately significant	Pursue an on-going intersection performance monitoring program [3]	York Region	Status – [1,2] Ongoing Status – [3] Future Work [1, 2] Signal timing and traffic simulations are being developed. The signal control system includes transit signal priority to allow buses to avoid stopping at intersections when feasible. Traffic signal offsets will also be designed for transit buses to maximize the chances of going through intersections on green signals. These features will improve travel time and service reliability. [3] Is a future post-construction activity.		Yes	[1-3] AC	Item [1,2] accepted that this is ongoing. Item [3] accepted that this is an operational issue for the future
A5	Locate stations to maximize ridership potential and convenience of access for all users	Residents/Employees within walking distance of station locations. Accessibility of stations/transit system.			✓	Entire Corridor	Stations at locations with automobile-oriented land use could discourage rapid transit use.	Station locations selected to serve supportive land use. Facilities designed with weather protection, direct barrier-free access and attractive streetscapes within surrounding residential neighbourhoods.	Continued dependence on automobile if land use objectives not achieved	Greater emphasis on supportive land use	Positive effect	[1] Regular review of land use and new or infill development potential during detailed design phases for transitway and stations.	York Region	Status - Complete York Region has developed guidelines for assessing potential locations for new or additional viva stations as development occurs		Yes	Closed (2015)	[1] The documentation provided includes principles for ridership criteria of new viva stations, analysis on spacing requirements/effects of new viva stations, and proposed measurements of analysis for applying the principles (p. 4 Viva Phase 1 Capital Improvements document ID 689) ACR 2015: [1] Evidence provided (Y2015-007) supports station locations. Item [1,2] are closed.

Notes: P – Preconstruction, C – Construction, O – Operation

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B1 (a)	Minimize adverse effects on and maximize benefits for communities in corridor	Potential displacement of community features		✓	✓	Entire Corridor	Potential displacement or loss of unique features.	[1] Avoid known distinct community features to minimize impact: [2] incorporate landscaping and furniture into streetscape to enhance corridor and community environment.	None expected	None expected	Negligible	[3] Future community consultation	York Region	Status – [1] Complete Status – [2] Ongoing Status – [3] Future Work [1] A property matrix cataloguing private property elements to be preserved and relocated forms part of the Project Agreement. The boulevard design accommodates existing trees, particularly along backyard fences where possible. No other community features are known to occur within the Project limits. [2] Preparation of 90% Streetscape Plans is currently underway and is focused on providing safe boulevards for pedestrians and cyclists, accommodating tree planting where possible. Site furnishings include bus shelters, benches, bike racks and waste receptacles. [3] This is a post-construction activity.	[1] Project Agreement To Design, Build and Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West and H2-East Segments): Schedule 15 Part 1 Appendix 1 and 2 (ID#38)	Yes	[1] EF [2,3] AC	Item [1]: Document ID#38 supports that community features are recognized and that protection measures are included in the Project Agreement. This item is closed Item [2] It is accepted that this item is in development. Item [3] this item does not have a defined time and it is accepted that it is a post-construction activity.
B1 Cont'd (b)		Effect on community cohesion			✓	Entire corridor	Highway 7 may be perceived as a 'highway-like road, which in turn with the introduction of transit service vehicles, could create an unfriendly environment for pedestrians.	Design transitway to facilitate safe pedestrian road crossings with median refuge. [1] Improved streetscaping in order to create a friendlier pedestrian environment. [2]	During initial operation, vehicle/pedestrian incidents may occur due to the introduction of new traffic facilities and patterns.	Emphasis on education programs, signage, and stricter enforcement.	Negligible	Continue to monitor traffic behaviour and causes of incidents involving pedestrians. [3]	York Region	Status – [1,2] Ongoing Status – [3] Future Work [1] Median refuge will be provided at various intersections along the alignment to facilitate safe pedestrian crossing. For example, a median refuge is provided at the intersection of Bathurst Street and New Westminister Drive as shown on H2E-CIV-PM-106. Additionally, the intersections with very large pedestrian crossing distance and vivaNext stations will have 2-stage	[1] H2E-CIV-PM-001 to 114 H2E – Pavement Markings and Signage – August 10, 2016 (ID#92)	Yes	[1] EF [2,3] AC	Item [1]: Document ID#92 (drawing 106) supports median refuges are included. Item [2] It is accepted that this item is in development. Item [3] it is accepted that it is a post-construction activity.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
													pedestrian crossing system in place (Permanent Traffic Conditions Report to be included in future ACR). [2] Preparation of 90% Streetscape Plans is currently underway and is focused on providing safe boulevards for pedestrians and cyclists, and accommodating tree planting where possible. [3] Future monitoring work, post-construction.					
(c)		Community facility utilization			✓	Entire corridor	Improved transit access could increase demand on facilities and services within the corridor.	Municipality can expand services and facilities through the increased development charge revenue.	Community facility expansion could impact stable existing communities.	Include mitigation measures in community facility expansion.	Positive effect	Monitoring of registration levels at the various facilities [1].	York Region	Status – Future work [1] Monitoring to take place post-construction.		Yes	[1] AC	Item [1] it is accepted that it is a post-construction activity.
B2 (a)	Maintain or improve road traffic and pedestrian circulation	Reduction in main street intersection capacities due to rapid transit operations			✓	Highway 50	Implementation of rapid transit reduces the intersection capacity after future growth.	A dedicated WB transit phase of 10s and a WB transit left turn have been introduced.	Under 2021 considerations, EBL, WBT & SBT will operate at capacity in the AM peak hour, and; EBL, WBT, NBT & SBL will operate at capacity in the PM peak hour. The impact of the RT system on the intersection will be negligible as the transit vehicle will operate in conjunction with the WBL.	Under 2021 considerations, the addition of a WB protected left turn phase should be considered.	Significant	Monitoring required for WB protected left turn phase.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(b)	Maintain or improve road traffic and pedestrian circulation (cont'd)				✓	New Mid-block Road	Under 2021 considerations, EBL, EBT & WBT will operate at capacity in the AM peak hour. The SBL will operate at capacity in the PM peak hour.	Pedestrian split phasing should be considered in detailed design phase.	None expected	None required.	Significant	Monitoring required for pedestrian split phasing.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 Cont'd (c)					✓	Hwy 427 N-E/W Off-Ramp	Under 2021 considerations, WBT will approach capacity in AM peak hour, and; no capacity constraints are expected in the PM peak hour.	None required.	None expected	None required.	Insignificant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(d)					✓	Hwy 427 S-E/W Off-Ramp	Transit vehicles will experience delay due to heavy ramp traffic volumes.	Cycle length has been increased from 90 seconds to 120 seconds to accommodate the heavy volumes on the off ramp.	The ramp movements require more green time to maintain acceptable operating conditions.	Transit signal priority could be considered during the detailed design phase.	Moderately Significant	Monitoring required for active transit signal priority.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(e)					✓	Roybridge Road/Vaughan Valley Boulevard	Implementation of RT reduces the intersection capacity.	N-S main phase has been increased to accommodate pedestrian crossing time.	The time for E-W main street movements will be reduced. WBT movements will operate at or near capacity.	Future pedestrian volumes should be monitored over time to determine the opportunity to provide a 2-stage crossing for pedestrians & thus allocate additional green time to the E-W main phase.	Moderately Significant	Monitoring required for 2-stage crossing.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(f)					✓	Highway 27	Implementation of RT reduces the intersection capacity.	N-S green time has been increased to accommodate the minimum pedestrian crossing time.	WBL will operate at capacity in the AM peak hour. This capacity issue currently exists today.	None required	Moderately Significant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		No	Closed (2015)	
(g)						Kipling Avenue	Requirement for transit to transition to mixed-traffic complicates the intersection	A ten second transit advance phase will be provided to	The additional transit phase will operate at	Split phasing should be considered to allocate additional	Moderately Significant	Monitoring required for implementation of split phasing or	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
						operation.	facilitate the access/ egress of the transit vehicle to/from the transit lanes. WBR is permitted during the transit advance phase.	capacity. WBT, SBT, EBL & EBT will operate at capacity or approach capacity in AM/ PM peak hour.	green time to the E-W phase as the N-S phase will operate at a minimum split of 38s. Alternatively, implementation of exclusive lanes in the SB approach for example an exclusive left, through & right turn lane should be considered.		exclusive lanes in the SB approach.							
B2 cont'd (h)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Islington Avenue	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit advance phase will be provided to facilitate the access/ egress of the transit vehicle to/from the transit lanes. EBR is permitted during the transit advance phase.	EBT, WBT, NBL & SBL will operate at capacity in AM/PM peak hour. Surrounding lands prevent road network improvements.	Significant	Monitoring required for implementation of split phasing or exclusive lanes in the SB approach. When the time comes to widen this section of the Highway 7 to 6 lanes, dual left turn lanes should be considered.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)		

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (i)					✓	Pine Valley Drive	Implementation of RT reduces the intersection capacity.	N-S pedestrian crossing times have been increased. Protected-only EBL & WBL have been introduced. Due to property constraints, dual left turn lanes cannot be provided.	The number of permissive left turns will be limited due to the heavy E-W through volumes. WBL, EBL & NBL will approach capacity or operate at capacity during peak hours.	Review property impact during Preliminary Design Phase to assess the opportunities to provide a dual left turn lanes.[1]	Moderately Significant	Review property impact during Preliminary Design Phase.	York Region	Status – Ongoing The traffic operations and need for dual left turn lanes for the Pine Valley Drive intersection will be reviewed in conjunction with geometric design constraints and property / right-of-way. The results of the analysis will be provided in the Permanent Traffic Conditions Report.		Yes	[1] AC	Item [1] it is accepted that it is an ongoing activity.
(j)					✓	Weston Road	Under 2021 considerations, the intersection is expected to operate at capacity during both peak hours.	None required.	Intersection will continue to operate at capacity.	None required.	Significant	None required.	York Region	Status – No Action Required		Yes	Closed (2015)	
(k)					✓	Famous Avenue	Under 2021 considerations, WB will approach capacity during both AM and PM peak hours.	None required.	Intersection will continue to operate at capacity.	None required.	Significant	None required.	York Region	Status – No Action Required		Yes	Closed (2015)	ACR 2015: Item closed
(l)					✓	Highway 400 S-EW off-ramp	Under 2021 considerations, NB dual left will approach capacity in the AM peak hour, and; no capacity constraints are expected during the PM peak hour.	None required.	Intersection will continue to operate at capacity.	None required.	Significant	None required.	York Region	Status – No Action Required		Yes	Closed (2015)	ACR 2015: Item closed
B2 cont'd (m)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Highway 400 Interchange	As the area generates a significant amount of traffic, the interchange will operate at capacity conditions between Weston Road to Jane Street during the peak period.	None required initially. However, monitoring for active signal priority is required to confirm if active signal priority is necessary in the future.	None expected	None required.	Moderately Significant	Monitoring for active signal priority required [1]	York Region	Status – Future Work Monitoring to take place post-construction.		Yes	[1] AC	Item [1] it is accepted that it is operational monitoring activity (Future Work).

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(n)					✓	Interchange Way	EBL, WBT & SBR will approach capacity or operate at capacity. Dual EBL could not be incorporated due to property constraints.	None required.	Intersection will continue to operate at capacity.	Review property impact during Preliminary Design Phase to assess the opportunity for dual eastbound left turn lanes.	Moderately Significant	Review property impact during Preliminary Design Phase [1]	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(o)					✓	Jane Street	Some transit vehicles are required to turn south to reach the York University.	A ten second transit phase will be provided to facilitate the movements. The NB exclusive right turn lane will be permitted during the transit phase. Review opportunities for road network improvements to improve left turn lane capacity issues.	The intersection of Highway 7 and Jane Street will operate at capacity during both peak periods. The protected left turn restrictions resulting from the RT system will result in the eastbound and westbound left turns operating at capacity.	Split phasing should be considered during the detailed design phase to provide a minimum split for the N-S pedestrian movement. Review opportunities for road network improvements to improve left turn lane capacity issues.	Moderately Significant	Monitoring required for implementation of split phasing. Review opportunities for road network improvements to improve left turn lane capacity issues. [4]	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (p)					✓	Interchange Way (Jane Street)	East approach is operating as a shared left-through and shared through-right. Heavy left turn volumes suggest an exclusive or dual westbound left turn lane is required.	Monitor east approach for widening	Intersection will continue to operate at capacity.	None expected	Moderately Significant	Recommend further intersection analysis during Preliminary Design Phase to determine if exclusive WB left turn widening is warranted.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed
B2 cont'd (q)					✓	Proposed East-West Road (Jane Street)	Under 2021 Considerations, SBL will operate at capacity and NBT will approach capacity during the AM peak hour. The opposing WBR will approach capacity during the PM peak hour.	Traffic volume should be monitored to determine if a SB dual left turn lane will be required to facility the heavy volume during the morning period.	Intersection will continue to operate at capacity.	None expected	Moderately Significant	Monitoring required for SB dual left turn lane.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (r)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Northwest Gate (Steeles Avenue)	Under 2021 Considerations, the intersection will operate at capacity during the AM peak hour.	None required.	Intersection will continue to operate at capacity.	None expected	Moderately Significant	None required.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed
(s)					✓	Keele Street	Transit vehicles are required to turn onto Highway 7.	A ten second transit phase will be provided to facilitate the movements. The WB general traffic will be permitted during the transit phase.	Both peak periods show the left turn movements operating at capacity.	Additional green time to the critical movements should be considered in the detailed design phase; or road network improvements should be considered in the preliminary design phase.	Moderately Significant	Review opportunities to provide additional capacity for the left turn movements during detailed design phase/preliminary design phase.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed
B2 cont'd (t)					✓	Creditstone Road	WBT, NBL & EBT will operate at capacity in the PM peak hour.	None required.	Intersection will continue to operate at capacity.	A 2-stage pedestrian crossing should be considered during the detailed design stage.	Significant	None required.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed
(u)					✓	Bowes Road/ Baldwin Avenue	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided.[1]	The intersection is expected to operate at good level-of-service with the RT system.	None expected	Positive effect	None required.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	ACR 2015: Item closed
B2 cont'd (v)					✓	Centre Street/ North Rivermede	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	EB transit vehicle will utilize the existing channelized right turn lane and diverge into the transitway downstream of the intersection to avoid delay.	The intersection will operate at a satisfactory LOS. NBT & EBT will approach capacity. Minimal delays or queues are expected between the two transitional intersections.	None expected	Insignificant	None required.	York Region	Status - No action required		Yes	Closed (2015)	ACR 2015: Item closed

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(w)					✓	Centre/ Bathurst Streets	Transit vehicles are required to negotiate an EBL or SBR in the dedicated transit ROW.	EBL/SBR for transit, & EBL/EBT for general traffic has been permitted during a 10-second transit phase. All the left turn lanes operate under protected-permissive phases as the transit phase operate under an exclusive phase.	EBL, NBL & SBT will approach capacity in the PM peak hour.	None expected	Moderately Significant	None required.	York Region	Status - No action required		Yes	Closed (2015)	ACR 2015: Item closed
(x)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Worth Boulevard/Flamingo Road (Bathurst Street)	Requirement for transit to transition to mixed-traffic operation.	A ten second transit phase will be provided. SBT will be permitted during this transit phase.	NBT will operate at capacity and SBT will approach capacity. Additional green time is required in the N-S direction.	Split phasing should be considered during the detailed design stage. [1]	Significant	Monitoring required for split phasing. [2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Preparation of the 90% traffic signal design is underway, which has determined that the intersection of Bathurst St. and Flamingo Rd. requires 1-Stage pedestrian crossing and that there is no need to provide 2-Stage crossing. In addition, the bus merging in the NB direction does not require separate bus phase; NB and SB movements will operate concurrently serving both general traffic and buses. The split phasing for this intersection is not considered a viable option from the traffic operations perspective. [2] Monitoring will take place post-construction.	[1] Memo "H2 – Bathurst Street One-Lane Rapidway Alternative Evaluation", April 4, 2014, refer to Section 4.1 (ID# Y2014-002)	No	[1] EF [2] AC	The evidence (ID# Y2014-002) for [1] was found to support the assertion of additional analysis. Item [1] remains ongoing. Item [2] it is accepted that it is operational monitoring activity (Future Work).

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(y)					✓	Bathurst Street Connection Road	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	Three SB left turn lanes will be provided: one for an exclusive SB transit left turn lane; two for SB general left turn traffic. A dual EB left turn lane will be provided.	No capacity constraints.	None expected	Positive effect	None required.	York Region	Status - No action required		Yes	Closed	
B2 cont'd (z)					✓	Hunter's Point Drive	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided. EBT will be permitted during this transit phase.[1]	No capacity constraints.	None expected	Positive effect	None required.	York Region	Status – Ongoing [1] Preparation of the 90% traffic signal design is underway. WB buses will travel in the general traffic lanes and no separate bus phase will be provided at the intersection. The EB buses will travel in the BRT lanes and will move concurrently with the E/W traffic phase.		Yes	[1] AC	Item [1]: it is accepted that it is in development

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(aa)					✓	Yonge Street Connection Road	Accessing the Richmond Hill Centre Intermodal Station complicates the intersection operation.	WB & SB right transit movements will operate in mixed traffic utilizing the existing channelized right turn lanes. EB & SB left transit movements will remain in the dedicated transit lanes. EB left transit & general traffic movements will operate together. Similarly, SB left transit & general traffic movements will operate together. [1] Signal priority will likely be implemented to detect buses in the transitway & activate the appropriate phases to avoid long delays & prevent the buses from doubling up.	EBL and WBT will approach capacity during the PM peak hour.	None expected	Positive effect	Monitoring required for signal priority. [2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Preparation of the 90% traffic signal design is underway. The EBL bus and general traffic movements will not operate concurrently due to a weaving issue on the outbound approach for access into Richmond Hill Centre entrance. This intersection will have two separate bus phases (i.e., to serve the SBL and EBL bus movements). The SBL bus movement will not operate concurrently with SBL general traffic due to safety reasons. EBL and WBT movements during PM peak are expected to operate with acceptable operations. [2] Monitoring of signal prioritized intersections will take place post-construction.		Yes	[1] AC [2] AC	Item [1]: it is accepted that this item is in development. Item [2] it is accepted that it is operational monitoring activity (Future Work).
B2 cont'd (ab)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Red Maple Road	Requirement of mixed-traffic transition complicates the intersection operation. Under 2021 Considerations, volumes from Bayview Glen Development show the eastbound left to operate at capacity during the PM peak hour.	An advance EB through phase will be implemented into the signal timing to permit the WB transit vehicle to transition to mixed traffic. The EB left will operate as protected only.	The intersection will operate at an acceptable LOS during the AM peak hour with the WB through approaching capacity. The WBT will operate at capacity in the PM peak hour.	None expected	Moderately Significant	Review potential to provide a dual eastbound left turn lane during the Preliminary & Detail Design Phases.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility													Compliance Monitoring			Compliance Review		
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(ac)					✓	Silver Linden Drive	EBL and WBT will operate at capacity or approach capacity in the PM peak hour.	None required.	Intersection will continue to operate at capacity.	None required.	Moderately Significant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ad)					✓	Bayview Avenue Connection Ramp	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided.	EBT will approach capacity in the AM peak hour.	The implementation of a dual EB left turn and/or split phasing for pedestrians should be considered during detailed design phase.	Moderately Significant	Evaluate option of implementing a dual eastbound left turn lane and/or review opportunity to provide split phasing for pedestrian.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ae)					✓	South Park Drive/Chalmers Road	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided.	E-W phase will operate at capacity during the PM peak hour. The EBL & WBT will operate a capacity.	Pedestrian split phasing should be considered.	Moderately Significant	Monitoring required for pedestrian split phasing.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(af)					✓	Leslie Street	WBL, SBL, EBL, EBT & NBL will operate at capacity or approach capacity in the AM & PM peak hours. The N-S movements will require a minimum split of 49 s to serve pedestrian crossing times. Long-term conditions expect high vehicular volumes in all approaches. Additional road improvements are insignificant due to high traffic demands from Highway 404 and surrounding future development.	Improvements are not possible due to land/ grade constraints or would not improve operating conditions due to excessively high volumes. Minor remedial measures are not possible such as dual left turn lanes or signal modifications.	Intersection will continue to operate at capacity.	Opportunities to reduce the minimum N-S split, such as a 2-stage pedestrian crossing, should be pursued as other critical phases require the additional green time.	Moderately Significant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (ag)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	East Beaver Creek/ Commerce Valley Drive East	EBL & WBL will operate at capacity due to the protected-only phases. The reduction in east-west capacity is mainly attributed to the additional north-south green time required to accommodate pedestrians. Heavy volumes and proximity to the Highway 404 interchange result in capacity conditions with minimal improvement from minor remedial measures.	Improvements are not possible due to land/ grade constraints or would not improve operating conditions due to excessively high volumes. Minor remedial measures are not possible such as dual left turn lanes or signal modifications.	Intersection will continue to operate at capacity.	None expected	Significant	A two-stage pedestrian crossing should be considered at the Commerce Valley Drive intersection to reduce side street green time demands.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ah)					✓	Highway 404 N-E/W Ramp	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	The WB transit vehicles will be given a green indication in conjunction with the WB traffic. A ten second EB transit phase will be provided. The WBT will be permitted during this phase. Upstream & stop bar detection of the transit vehicle will be provided to allow the controller with advance warning and confirmation that a transit vehicle requires the advance transit phase.	Overall peak hour operations are not impacted. Transit delay between the two transition intersections is expected.	Should the resultant delays to transit vehicles be considered excessive, transit vehicle priority could be employed at both the transition intersections to advance the traffic signal display in anticipation of the arrival of the transit vehicle.	Moderately Significant	Review the need to provide transit vehicle priority.	York Region	Status – Does not apply to H2-West or H2-East segments	Yes	Closed (2015)		

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (ai)					✓	Highway 404 Interchange	Heavy volumes on off-ramps and through Highway 7 Corridor suggest major mitigative measures will be required in future.	Major mitigative measures should be considered in future.	Congestion within the interchange will remain.	None required.	Significant	Monitor queuing on off-ramps and on Highway 7 to assess need for improvements. Monitoring required for active signal priority.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(aj)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Highway 404 S-E/W Ramp	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	The EB transit vehicles will be given a green indication in conjunction with the EB traffic. A ten second WB transit phase will be provided. The EBT will be permitted during this phase. Upstream & stop bar detection of the transit vehicle will be provided to allow the controller with advance warning and confirmation that a transit vehicle requires the advance transit phase.	Overall peak hour operations are not impacted. Transit delay between the two transition intersections is expected.	Should the resultant delays to transit vehicles be considered excessive, transit vehicle priority could be employed at both the transition intersections to advance the traffic signal display in anticipation of the arrival of the transit vehicle.	Moderately Significant	Review the need to provide transit vehicle priority.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(ak)					✓	Allstate Parkway/East Valhalla	EBL, WBT & SBR will operate at or above capacity in the AM & PM peak hours due to heavy volumes generated from the high-density office area and future Seneca College. An extended advance phase is required, which impacts the E-W available green time in the AM peak hour.	Extended EB advance phase should be considered. The implementation of a channelized SB right turn lane should be examined as well as a dual EB left turn lane during the detailed design stage.	Intersection will continue to operate at capacity.	None required.	Moderately Significant	Review potential to provide a channelized right turn lane in the southbound direction and a dual eastbound left turn lane.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (al)					✓	Town Centre Boulevard (Town Centre Blvd. Alignment)	Transit vehicles are required to negotiate an EBR or NBL in the dedicated transit ROW.	EBR/NBL for transit, & WBT for general traffic has been permitted during a dedicated 10-second transit phase. The WBL will operate as protected-only in order to prohibit WBL vehicles from operating with the WBT volumes during the transit phase.	EBT will operate at capacity in the PM peak hour.	None required.	Significant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(am)					✓	Clegg Road	WBT, SBL, EBL & NBL will approach capacity in AM/PM peak hour.	None required.	Intersection will continue to operate at capacity.	None required.	Significant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(an)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Helen Avenue/future North-South Connection Road	Transit vehicles are required to enter/exit the dedicated median transitway lanes.	An exclusive transit only phase will be provided.	Under 2021 Considerations, EBL & SBL will approach capacity in the AM/PM peak hour.	None required.	Significant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(ao)					✓	Helen Avenue (Kennedy Road)	Transit vehicles are required to negotiate an EBL or SBR in the dedicated transit ROW. Under 2021 Considerations, heavy volumes generated from Markham Centre West and GO Unionville Station will result in capacity constraints on NBL, SBT & WBL during AM/PM peak hour.	A transit phase of 10s has been incorporated into the signal timings to operate in conjunction with the EBL & EBT movements. Under 2021 Considerations, a dual northbound left and channelized right turn should be considered.	Intersection will continue to operate at capacity.	None required.	Significant	Follow-up monitoring during full buildout conditions to examine the possibility of implementing a dual northbound left and channelized eastbound right turn lane.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (ap)					✓	Avoca Drive(Kennedy Road)	Implementation of RT will reduce the intersection capacity. The proposed Markham Centre West developments at this intersection show heavy north-south volumes on Kennedy Road. WBL, NBL & EBL will approach capacity in AM/PM peak hour.	NBL & SBL will operate as protected left phases. To reduce the northbound advance phase, improvements such as implementing a dual northbound left turn lane should be considered in the detailed design phase.	Intersection will continue to operate at capacity.	None required	Significant	Follow-up monitoring to assess capacity issues during the PM peak hour with NB/SB through movements and the NB left.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(aq)					✓	Kennedy Road	Transit vehicles are required to negotiate a NBR or WBL in the dedicated transit ROW.	A transit phase of 10s has been incorporated into the signal timings to operate in conjunction with the WBT movements.	None expected.	A 2-stage pedestrian crossing should be considered during detailed design phase to meet the minimum split requirements in both directions.	Moderately significant	A 2-stage pedestrian crossing should be considered during detailed design phase.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ar)					✓	Bullock Drive/ Commercial Access	EBL will operate at capacity as a protected left turn phase in PM peak hour.	None required	Intersection will continue to operate at capacity.	None required	Moderately significant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(as)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	McCowan Road	WBL & NBL will operate above capacity.	None required initially. Based on future operations, improvements to the westbound left and northbound left may be required to improve operations at the intersections during the AM peak hour. To improve operating conditions, a two-stage pedestrian crossing should be investigated in both directions during the detailed design stage.	Intersection will continue to operate at capacity.	None required	Significant	Investigated the need to provide a two-stage pedestrian crossing in both directions during the detailed design stage. Review special needs for the westbound left and northbound left during the AM peak hour.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (at)					✓	Grandview Boulevard/ Galsworthy Drive	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided.	The intersection is expected to operate at an acceptable LOS.	None required	Positive Effect	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(au)					✓	Main Street Markham	E-W main phase is reduced significantly due to the pedestrian crossing time requirements to cross Highway 7.	WBL will operate at capacity in the AM peak hour and WBL & NBL will approach capacity in the PM peak hour.	Intersection will continue to operate at capacity.	None required	Significant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(av)					✓	Wooten Way	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided.	The intersection is expected to operate at an acceptable LOS.	None required	Positive Effect	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility													Compliance Monitoring			Compliance Review		
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(aw)					✓	Ninth Line	Under 2021 considerations, EBL, SBT, NBL, NBT & WBT will approach capacity or operate at capacity in the AM/PM peak hour.	None required	Intersection will continue to operate at capacity.	None required	Significant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ax)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Reduction in main street intersection capacities due to rapid transit operations (cont'd)			✓	Bur Oak Avenue	Requirement for transit to transition to mixed-traffic complicates the intersection operation in the initial phase.	EBL transit and general traffic will operate together. Similarly, SB transit and general traffic will operate together. WBR transit vehicles will operate in conjunction with the SB phase.	The intersection is expected to operate without any capacity constraints.	None required	Positive Effect	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (ay)					✓	Future Markham By-Pass Extension	Under 2021 considerations, SBL will operate at capacity in the AM/PM peak hours.	Exclusive right turn lanes in all approaches should be considered in detailed design phase.	Intersection will continue to operate at capacity.	None required	Significant	Monitoring required for Exclusive right turn lanes.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(az)					✓	Reesor Road	Requirement for transit to transition to mixed-traffic complicates the intersection operation.	A ten second transit phase will be provided for EB transit vehicle in conjunction with the WB through general traffic.	The intersection will not be significantly impacted.	None required	Insignificant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(ba)		Need to divert from main street at various locations, as required for the preferred alignment.			✓	TTC BRT Entrance/ Steeles Ave. IBM Entrance/ Town Centre Blvd.	New traffic signal will be required to facilitate a safe transit movement among the general traffic.	New traffic signal is introduced.	None expected.	None Expected	Insignificant	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(bb)		Potential conflict at transition points between mixed-traffic operations and median transitway operations			✓	Proposed signalized Beechwood Cemetery Entrance SB	Rapid transit may have to wait for opportunity to merge with the general through traffic resulting in service delay. New traffic signal will be required to facilitate a safe transit movement among the general traffic.	New traffic signal is introduced to accommodate transit movements. Also, this new intersection provides a better access for the cemetery.	None expected.	None Expected	Positive	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	2013 ACR: it is noted that item does not apply to H2.
(bc)		Critical left turn storage lengths			✓	Westbound dual left at Famous Avenue	High left turn volumes at this cinema's only access will deteriorate the intersection operation.	The dual left turn storage lengths have been maximized.	Due to the constraint of the intersection spacing (306 m), the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status - No action required.		Yes	Closed (2015)	ACR 2015: Closed

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (bd)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Critical left turn storage lengths (cont'd)			✓	Eastbound and Westbound at Millway Avenue	High left turn volumes resulted from future Vaughan Corporate Centre development will deteriorate the intersection operation.	The left turn storage lengths have been maximized.	Due to the constraint of the intersection spacing (260 m in EB; 172 m in WB) and platform locations, the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status -No action required		Yes	Closed (2015)	ACR 2015: Closed
(be)					✓	Eastbound and Westbound left at Chalmers Road/ South Park Drive	High left turn volumes resulted from the business park will deteriorate the intersection operation.	The left turn storage lengths have been maximized.	Due to the constraint of the intersection spacing (220m in WB), the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(bf)					✓	Westbound left at Saddlecreek Drive	High left turn volumes resulted from new development will deteriorate the intersection operation.	The left turn storage lengths have been maximized.	Due to the constraint of the intersection spacing (250 m), the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
B2 cont'd (bg)					✓	Eastbound and Westbound left at Times Avenue/Valleymede Drive	High left turn volumes resulted from the business park will deteriorate the intersection operation.	The left turn storage lengths have been maximized.	Due to the constraint of the intersection spacing (250 m in EB; 405 m in WB) and the platform location, the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(bh)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Critical left turn storage lengths (cont'd)			✓	Northbound left on Jane Street at Highway 407 north ramp	High left turn volumes accessing the Highway 407 will deteriorate the intersection operation.	The left turn storage length has been maximized.	Due to the constraint of the intersection spacing (230 m), the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status –No action required		Yes	Closed (2015)	ACR 2015: Closed
(bi)					✓	Eastbound and Northbound left at Kennedy Road and Helen Avenue	High left turn volumes accessing the GO Unionville Station will deteriorate the intersection operation.	The eastbound left turn storage length has been maximized and the northbound left turn storage length remains as existing.	Due to the constraint of the intersection spacing (245 m in EB), the maximized left turn storage lengths still cannot provide the required capacity. The left turn vehicles may spill out onto the adjacent through lane blocking the through traffic.	None Expected	Moderately Significant	None	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (bj)		Widening or construction of new structures resulting in major temporary disruption to highway or railway traffic during construction		✓		Hwy 427 CP Mactier Hwy 400 McMillian Yard Hwy 407/ Jane St. CN Halton CN Bradford Hwy 407/ Bathurst St. Yonge St. CN Bala Future Cedar Ave. Bayview Ave. Hwy 404 CP Havelock	Construction staging at busy highway interchanges such as at Hwy 404, could cause additional delay to general traffic. Temporary relocation of railway lines could cause delay to railway traffic.	Mitigation in the form of traffic accommodation plans and temporary works will be developed for all structures where disruption is unavoidable.[1] Mixed traffic operation is introduced in the area of CP Mactier, CN Halton, CN Bradford, Hwy 407/ Bathurst St., Bayview Ave., CN Bala, Hwy 404 and CP Havelock to avoid widening of structures. Lane reduction is used at Hwy 400 to minimize the widening of the structure. The widening of the rest of the structures is considered unavoidable.	Reduction in transit and general traffic operation speed. Some delays likely during construction period.	None	Moderately significant	Monitor traffic operation to confirm whether dedicated transit lanes are required in the future.[2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Traffic Management Plans are being prepared to ensure pedestrian and vehicle circulation is maintain during construction activities. Highways and interchanges, such as works near Highway 407 access, are considered in the preparation of the plans where appropriate. [2] Monitoring to take place post-construction.	[1] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)	Yes	[1] EF [2] AC	Item [1]: Document ID#79 shows that construction traffic management plans are made. ACTION: For 2017 ACR, please provide example relevant to CN rail, if completed. Item [2] it is accepted that it is operational monitoring activity (Future Work).

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(bk)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Access to minor side streets and properties along the Highway 7 Corridor transit routes	✓	✓	✓	Entire Corridor	Median transitway will eliminate random left turns into minor side streets and properties thereby requiring an alternative access route	In many cases, alternative access can be obtained to a site via another site access or an adjacent roadway with signalized access to Highway 7. The travel patterns for the major traffic generators will be changed. U-turns provided at major intersections for safe manoeuvres into side streets and to properties. Random permissive left turns eliminated thus increasing safety. Develop traffic management plans for construction [1].	Conflict with U-turns and Right may decrease safety.	None necessary	Moderately significant	Monitor traffic and prohibit Right Turns On Red movements from the side street at these locations if necessary [2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Traffic Management Plans are being prepared to ensure pedestrian and vehicle circulation is maintain during construction activities. Access to minor side streets and properties adjacent to the transitway are considered in the preparation of the plans where appropriate. During operations, U-turn opportunities will be provided at intersections to facilitate movements in and out of adjacent land uses. Right turns on red prohibition will be reviewed in conjunction with U-Turn opportunities in the final design. The final Permanent Conditions Report will provide details on U-turns and right turns on red prohibitions. [2] Monitoring to take place post-construction.	[1] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)	Yes	[1] EF [2] AC	Item [1]: Document ID#79 shows that construction traffic management plans are made. Item [2] it is accepted that it is operational monitoring activity (Future Work).

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility													Compliance Monitoring			Compliance Review		
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (b)		U-turn movements and the corresponding side street right-turn-on-red (RTOR) movements			✓	Hwy 7/ Helen St.; Hwy 7/ Town Centre Blvd.; Town Centre Blvd/ Cedarland Dr.; Kennedy Rd./ Avoca Dr.; Hwy 7/ Robinson St./ St. Patrick School Entrance; Hwy 7/ Grandview/ Galsworthy Dr.; Hwy 7/ McCowan Rd.; Hwy 7/ Laidlaw Blvd./ Conservation; Hwy 7/ Wooten Way; Hwy 7/ Ninth Line	The permitted U-turn movements at these locations may cause conflicts with RTOR movements.	Follow-up monitoring should be undertaken to review the interaction between the U-turn movement and any opposing cross-street RTOR movement. A RTOR prohibition may need to be enacted to reduce conflicts at these intersections.	None Expected	None Expected	Moderately Significant	Further monitoring should be undertaken to ensure the conflicts been reduced.	York Region	Status - Future work (Helen Street) Monitoring to take place post-construction.		Yes	[1] AC	Item [1] it is accepted that it is operational monitoring activity (Future Work).
(bm)	Maintain or improve road traffic and pedestrian circulation (cont'd)	Potential for Traffic Infiltration			✓	Monsheen Drive Neighbourhood; Willis Rd./ Chancellor Dr.; Westminster Dr.; Beverley Glen Blvd; South Park Dr./ Commerce Valley Dr. E & W; Kennedy Rd. from Avoca Dr. to Swansea Rd.	In many neighbourhoods, traffic infiltration has already been occurring to circumvent Highway 7. With future constraints placed on Highway 7, it may prove more beneficial for traffic to utilize these local roadways.	Future traffic volumes through these neighbourhoods should be monitored before [1] and after [2] the implementation of the preferred transitway alternative to determine if additional measures are required to reduce traffic infiltration.	Infiltration may still require mitigation	Measures to reduce traffic infiltration could be implemented.	Insignificant	None	York Region	Status – [1] Ongoing (Westminster, Beverley Glen) [1] Reduced intersection capacity resulting from roadway modifications is being investigated as part of the traffic analysis of existing and permanent conditions. Intersection and driveway counts were collected to support development of detailed design and to establish baseline traffic volumes. Traffic count information will be provided in the Permanent Condition Traffic Report. [2] Monitoring to take place post-construction.		Yes	[1] AC [2] AC	Item [1] it is accepted that this monitoring of traffic is ongoing Item [2] it is accepted that it post-construction monitoring is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B2 cont'd (bn)		Pedestrian Crossings			✓	Vaughan Valley Blvd./ Roybridge Gate; Hwy 427; Jane St./ Hwy 7; Creditstone Rd.; Keele St.; Islington Ave.; Aberdeen Ave./ Marycroft Ave.; Worth Blvd./ Flamingo Rd./ Bathurst St.; South Park/ Chalmers Rd.; Leslie St.; Commerce Valley Dr. E/ E. Beaver Creek; Town Centre Blvd./ Hwy 7; Kennedy Rd./ Avoca Dr. Kennedy Rd./ Hwy 7; McCowan Rd.	Due to the width of the main street at intersection, pedestrians may not be able to cross the intersection in one signal phase based on the standard pedestrian crossing times of 7 seconds.	Transitway median facilities generally provide a pedestrian refuge at mid-crossing. [1]	These intersections may require two-stage crossing in the future to accommodate heavy main street traffic.	The decision to implement these special provisions should be deferred until post-operation conditions are monitored and the need is identified	Moderately Significant	Monitoring is required to determine if the implementation of two-stage is a necessity. [2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Median refuge will be provided at various intersections along the alignment to facilitate safe pedestrian crossing. For example, a median refuge is provided at the intersection of Bathurst Street and New Westminister Drive as shown on H2E-CIV-PM-106. Additionally, the intersections with very large pedestrian crossing distance and vivaNext stations will have 2-stage pedestrian crossing system in place. Preparation of the traffic signal design has determined that the intersection of Bathurst St and Flamingo Road requires 1-Stage pedestrian crossing and that there is no need to provide 2-Stage crossing. It was also determined that median refuge is not necessary at this intersection. [2] Monitoring to take place post-construction.	[1] H2E-CIV-PM-001 to 114 H2E – Pavement Markings and Signage – August 10, 2016 (ID#92)	Yes	[1] EF [2] AC	Item [1]: document #92 (drawing 106) shows median refuge. This item is ongoing Item [2]: it is accepted that post-construction monitoring is Future Work.
B3	Maintain a high level of public safety and security in corridor	Access for emergency vehicles	✓	✓	✓	Highway 7, Jane Street, Town Centre Boulevard, Kennedy Road, future Burr Oak Avenue	Incorporation of median and construction will have adverse effects on Emergency Response Services (ERS) access and time	Provided U-Turns at intersections. Meet with emergency representatives. [1] Median breaks to be provided to allow access to Emergency Response Vehicles only.[2]	Some risk may remain as access type will change after implementation of mitigation	Address during detail design in conjunction with ERS	Insignificant	Obtain feedback from ERS [2]	York Region	Status – does not apply to H2-West H2-East segments		No	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B4 (a)	Minimize adverse noise and vibration effects	Noise effect for BRT and LRT due to widening of Highway 7 Corridor			✓	Entire corridor in proximity of residential uses	Combined effect of median transitway operation and general traffic on the widened Highway 7 Corridor roadways may result in increased noise levels for residents.	Modeling of future traffic activities indicated that expected noise increases in all, but one road segment, will not exceed the 5dB threshold at which mitigation measures are required. BRT and LRT sound level increases are expected to be marginal to none. However, at the future Markham Centre location, the BRT and LRT are predicted to exceed the background noise levels by as much as 8 dBA.	Transitway noise above likely background levels in Civic Mall at future Markham Centre location.	Depending on lower floor building uses, may require noise screening along transitway and/or noise control features in residential design along Civic Mall segment in Markham Centre area.	Insignificant	Undertake confirmation monitoring to verify compliance once the transitway is fully operational. In the event that the future noise level warrants mitigation, appropriate noise reduction measures will be put in place.	York Region	Status – future work This item is future work and will be addressed through post-construction monitoring.		Yes	[1] AC	Item [1]: it is accepted that post-construction monitoring / mitigation is Future Work.
(b)		Vibration effect for BRT and LRT due to widening of Highway 7 Corridor			✓	Entire corridor in proximity of residential uses	Combined effect of median transitway operation and general traffic on the widened Highway 7 Corridor roadways may result in increased vibration levels for residents.	Modeling of future traffic activities indicated that expected vibration increases will not exceed the protocol limit of 0.1 mm/sec for LRT. BRT vibration levels are expected to be negligible.	None expected	None necessary	Negligible	Undertake confirmation monitoring to verify compliance once the transitway is fully operational.	York Region	Status – future work Future work as monitoring to occur during operations.		Yes	[1] AC	Item [1]: it is accepted that post-construction monitoring mitigation is Future Work.
B5 (a)	Minimize adverse effects on cultural resources	Displacement of Built Heritage Features (BHF)	✓	✓	✓	Brown's Corners United Church (Markham)	Widened roadway could displace some of the cemetery's graves, unless alignment is modified.	Alignment is shifted up to 5.5 m to the south	Displacement of cemetery property is completely avoided.	None required	Negligible	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(b)		Displacement of Cultural Landscape Units (CLU)	✓	✓	✓	None Expected	None Expected	None required	None expected	None necessary	Positive	None required	York Region	Status - No action required		Yes	Closed (2015)	
(c)		Disruption of Built Heritage Features (BHF)		✓		Residences in Vaughan: 5298 Hwy 7 (#2 CLU); 5263 Hwy 7 (#2 CLU); 1423, 1445, 1453 & 1139 Centre St. (1453 may have been demolished since survey)(#8 BHF);	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status - No action required.		Yes	Closed (2015)	
(d)						Residences in Markham: 4592 Hwy 7; 5429 Hwy 7 (#10 BHF); 6881 Hwy 7 (#12 BHF); 7170 Hwy 7 (#13 BHF); 7265 Hwy 7 (#14 BHF); 7482 Hwy 7 (#15 BHF).	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(e)				✓		Brown's Corners United Church (Markham)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B5 cont'd (f)	Minimize adverse effects on cultural resources (cont'd)	Disruption of Built Heritage Features (BHF) (cont'd)		✓		Sabison house (Markham) - 5110 Hwy 7 in shopping plaza (Markham) (#9 BHF)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(g)				✓		Individual designated building within Markham HCD now Tim Hortons (#11 BHF)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transit-way will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(h)				✓		Historic Plaque: Reesor Cairn (Markham)(#16 BHF)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transit-way will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(i)		Disruption of Cultural Landscape Units (CLU)		✓		Farm complex in Vaughan: 6701 Hwy 7 (#1 CLU)	There is potential encroachment through widening to the CLU.	None required – transit-way will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status - No action required		Yes	Closed (2015)	
(j)				✓		Residences in Vaughan: 4976, 4908, 4902 & 4855 Hwy 7 (#2 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural heritage features in the Cultural Landscape – former centre of settlement. (Brownsville)	None required – transit-way will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status - No action required		Yes	Closed (2015)	

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GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
(k)	Minimize adverse effects on cultural resources (cont'd)	Disruption of Cultural Landscape Units (CLU) (cont'd)		✓		Residences in Vaughan: 2060, 2063, 1985 & 1929 Hwy 7 (#3 – #6 BHF) Southeast of Hwy 7 & GO Bradford (no street address)(#7 BHF) GO Bradford railway overpass	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment around the cultural heritage features.	None required – transit-way will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status - No action required		Yes	Closed (2015)	
B5 cont'd (l)				✓		Farm complex in Vaughan: Stong Farm in York U. – 3105 Steeles Avenue (#6 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Complete photo documentation of site context prior to construction.	None expected	None necessary	Insignificant	None required	York Region	Status – does not apply to H2-West or H2-East segments Part of Spadina Subway Extension Project		Yes	Closed (2015)	
(m)				✓		Farm complex in Markham: 7996 Helen Avenue (#6 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Complete photo documentation of site context prior to construction.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(n)				✓		Brown's Corners United Church Cemetery (Markham) (#8 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(o)				✓		Centre of settlement: Markham Village Heritage Conservation District designated under Part V OHA (#11 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B5 cont'd (p)	Minimize adverse effects on cultural resources (cont'd)	Disruption of Cultural Landscape Units (CLU) (cont'd)		✓		Elmwood Cemetery (Markham)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Transitway will operate in mixed traffic to avoid widening adjacent to the cemetery.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(q)				✓		St. Andrews Cemetery (Markham)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Transitway will operate in mixed traffic to avoid widening adjacent to the cemetery.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(r)				✓		Farm complex in Markham: 6937 Hwy 7 (#12 CLU) 7323 Hwy. 7 (Likely demolished)(#13 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(s)				✓		Locust Hill – historical centre of settlement (#15 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Transitway development will not extend eastward beyond Reesor Road. Any rapid transit through Locust Hill to Pickering will operate in mixed traffic.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(t)				✓		At grade historic railway corridor: CP Havelock rail line (#16 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	Transitway development will not extend eastward beyond Reesor Road. Any rapid transit through Locust Hill to Pickering will operate in mixed traffic.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B5 cont'd (u)	Minimize adverse effects on cultural resources (cont'd)	Possible impacts to areas with potential for identification of archaeological sites		✓		Roadscape: Reesor Road landscape north side. (#14 CLU)	The potential introduction of rapid transit operation may cause changes in visual, audible and atmospheric environment to the cultural landscape feature	None required – transitway will be integrated with existing streetscape and road traffic operations.	None expected	None necessary	Insignificant	None required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(v)			✓			Entire Corridor	There is potential for identification of archaeological sites within the project impact area.	Stage 1 Archaeological Assessment has been conducted. [1] Stage 2 Archaeological Assessment will be performed in detailed design: field survey in accordance with Ministry of Culture Stage 1-3 Archaeological Assessment Technical Guidelines to identify any sites that may be present within the proposed impact area. [2] If areas of further archaeological concern are identified during Stage 2 assessment, such areas must be avoided until any additional work required by the Ministry of Culture has been completed. Mitigation options, including avoidance, protection, or salvage	Archaeological sites may be identified during the course of Stage 2 Archaeological Assessment. In the event that deeply buried archaeological remains are encountered during construction activities, the office of the Regulatory and Operations Group, Ministry of Culture should be notified immediately. In the event that human remains are encountered during construction, both the Ministry of Culture and the Registrar or Deputy Registrar of the Cemeteries Regulation Unit, Ministry of Consumer and	Needs for further mitigation, possibly including Stage 3 Archaeological Assessment (test excavation) and Stage 4 Archaeological Assessment (further mitigative work, including mitigative excavation), must be determined following Stage 2 Archaeological Assessment, if archaeological resources are identified during survey.	Negligible for stage 1 Archaeological Assessment	No requirement for monitoring has been identified as a result of Stage 1 Archaeological Assessment. Monitoring may be required, depending on the result of Stage 2 Archaeological Assessment.	York Region	Status –Completed Archaeological Services Inc. (ASI) has completed a Stage 2 Archaeological Assessment and indicated on August 23, 2011 that there is no further archaeological concern related to affected properties for H2. [2011]ASI is in the process of finalizing the Stage 2 Archaeological Assessment Report, copies of which will be provided for review to all relevant parties as noted including requesting First Nations. The Stage 2 Archaeological (Property) Assessment Report was completed in February 2012 and is awaiting MTCS concurrence. [2] It concluded that all lands within the study area can be considered clear of further archaeological concern and no further archaeological assessment is required. In the event that archaeological remains are found during subsequent construction activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the Ministry of Tourism and Culture should be immediately notified.	Stage 2 Property Assessment 2012(ID#8294) Letter from MTCS 2013, Re: Review and Entry into the Ontario Public Register of Archaeological Reports (ID#9429)	Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
							excavation must be determined on a site-by-site basis. If no potentially significant archaeological sites are identified during Stage 2, it will be recommended to the Ministry of Culture that the areas assessed be considered free of further archaeological concern.	Commercial Relations should be notified immediately.						[1,2] MTCS provided a letter of concurrence on the Stage 2 Archaeological Assessment on January 4, 2013				
B6 (a)	Minimize disruption of community vistas and adverse effects on street and neighbourhood aesthetics	Visual Effects	✓		✓	Entire Corridor	Introduction of transit may reduce visual aesthetics of road	Introduction of a comprehensive landscaping and streetscaping plan for the corridor [1].	Narrow sections of ROW where property cannot be acquired may limit incorporation of streetscaping		Significant	Monitor redevelopment and acquire property through redevelopment applications [2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Preparation of 90% Streetscape Plans is currently underway and is focused on providing safe boulevards for pedestrians and cyclists, accommodating tree planting where possible. Boulevard design accommodates existing trees, particularly along backyard fences where possible. [2] Redevelopment monitoring to take place post-construction.		Yes	[1] AC [2] AC	Item [1] it is accepted that streetscaping is under development. Item [2] it is accepted that it post-construction monitoring is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B6 cont'd (b)		Visual Effects	✓		✓	Hwy 404 interchange	If necessary in the future, achieving a dedicated transitway through the interchange by adopting an elevated solution, could have an adverse effect on vistas in the area.	Initially, the option of lengthening the span of the existing interchange bridges will be analyzed and only if found impractical under traffic operations, will an elevated solution be developed. This design can be made visually acceptable given the surrounding highway interchange environment and the remoteness of adjacent land uses from which vistas may be degraded.	The overall height of the interchange works would be increased to that of the neighbouring Highway 407 interchange.	None	Insignificant if span lengthening is adopted. Moderately significant if elevated design is required.	Monitor the level of traffic congestion affecting the reliability of preferred mixed traffic operation to assess the effectiveness of the planned new Hwy 404 road overpass north of the interchange.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(c)		Landscaping	✓		✓	Entire Corridor	Landscaping species may not survive in winter months	[1] Choose appropriate species for both winter and other months to maintain greenery throughout corridor. [2] Place landscaping in planters and incorporate buried irrigation systems.	Species may still not survive	[3] Change species, irrigation patterns, etc.	Insignificant	[4] Monitor health of landscaping continuously	York Region	Status – [1, 2] Ongoing Status [3,4] Future Work [1] Preparation of 90% Streetscape Plans is currently underway and species selection is being coordinated with York Region Forestry based on success of species on other segments of the corridor. [2] Planters are being incorporated into the streetscape design. Manual irrigation features are being incorporated into the design per the Project Agreement for Design, Build Finance. [3, 4] Landscape monitoring to take place post-construction during the two year warranty period as outlined the Project Agreement for Design, Build Finance.	[2, 3, 4] Project Agreement To Design, Build And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments) [2, 3] Schedule 15, Part 2 (ID# 17) [3, 4] Schedule 15, Part 4 (ID#57)	Yes	[1] AC [3,4] AC	Item [1] it is accepted that streetscaping is under development and the Project Agreement (#ID57) shows conifers and planters. Item [3,4] it is accepted that post-construction monitoring [4] & mitigation [3] is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B6 cont'd (d)		Encroachment on sites of existing buildings		✓	✓	Immediately west of Leisure Lane, south side	Modification of alignment is required to avoid the south building	Alignment shifted up to 2.3 m to the north	South building setback restored; internal parking required rearranging.	None	Insignificant	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
(e)	Minimize disruption of community vistas and adverse effects on street and neighbourhood aesthetics (cont'd)	Encroachment on sites of existing retaining walls		✓	✓	Between Islington Ave. and Bruce Street, north side	Relocation of existing retaining walls holding up residential properties would be required with the existing alignment.	Alignment shifted up to 2.8 m to the south	North retaining walls remain intact.	None	Negligible	None Required	York Region	Status – Completed Alignment has been finalized. Refer to Section 2.3.5 Horizontal Alignment of the DBCR.	Highway 7 Segment H2 Islington Avenue to Richmond Hill Centre via Centre Street & Bathurst Street Preliminary Engineering Design Basis & Criteria Report FINAL June 2012. (ID#8680)	Yes	Closed (2012)	
(f)		Encroachment on sites of existing property		✓	✓	In the proximity of Whitmore/ Ansley Grove Roads	Additional road width required accommodate station platforms would result in property encroachment solely on the south side.	Alignment shifted up to 3.8 m to the north	Property impact on both sides becomes similar.	None	Insignificant	None Required	York Region	Status – Completed Alignment has optimized to minimize property impacts. Refer to Section 2.3.5 Horizontal alignment of the DBCR.	Highway 7 Segment H2 Islington Avenue to Richmond Hill Centre via Centre Street & Bathurst Street Preliminary Engineering Design Basis & Criteria Report FINAL June 2012. (ID#8680)	Yes	Closed (2010)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-2 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B6 cont'd (g)		Encroachment on sites of existing buildings		✓	✓	Northwest of Weston Rd. & Hwy 7	Additional road width required accommodate station platforms would result in removal of NW building. Modification of alignment is required.	Alignment shifted up to 4.7 m to the south	Encroachment to the NW building is avoided.	None	Negligible	None Required	York Region	Status –Completed Alignment has optimized to minimize property impacts. Refer to Section 2.3.5 Horizontal alignment of the DBCR.	Highway 7 Segment H2 Islington Avenue to Richmond Hill Centre via Centre Street & Bathurst Street Preliminary Engineering Design Basis & Criteria Report FINAL June 2012. (ID#8680)	Yes	Closed (2010)	
B6 cont'd (h)		Encroachment on sites of existing property		✓	✓	Northwest of Town Centre Boulevard & Hwy 7	The NW is being developed and the future buildings will be constructed very close to the existing north ROW such that property negotiation is not feasible. Modification of alignment is required.	Alignment shifted up to 7.0 m to the south. Agreement has been made with the developer that they will grade YRTP's proposed sidewalk at the limit of ROW.	Property impact on the north side is avoided.	None	Insignificant	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2010)	
(i)		Encroachment on sites of existing building		✓	✓	Southwest of Clegg Rd. & Town Centre Boulevard	Encroachment to the existing SW building would be required.	Alignment shifted up to 4.1 m to the east.	Encroachment to the SW building is avoided.	None	Negligible	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2010)	
(j)		Encroachment on sites of existing property		✓	✓	Between Bullock Dr. and McCowan Rd., north side	North property would be subjected to greater property impact than the south.	Alignment shifted up to 1.2 m to the south.	Property impact on the north side is minimized.	None	Moderately significant	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2010)	
(k)		Encroachment on sites of existing property		✓	✓	Northeast of Robinson Street/ Jolyn Road and Hwy 7	Encroachment to existing fenced residential property would be required.	Alignment shifted up to 3.5 m to the south and retaining walls along the limit of north ROW are introduced.	Property impact on the north side is avoided.	None	Insignificant	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2010)	
(l)		Encroachment on sites of existing buildings		✓	✓	Galsworth Dr./ Grandview Blvd., south side	Encroachment on sites of existing buildings would be required.	Alignment shifted up to 1.5 m to the north.	Encroachment of new boulevard on sites of existing buildings is minimized.	None	Moderately significant	None Required	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2010)	

Notes: P – Pre construction, C – Construction, O – Operation

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1 (a)	Minimize adverse effects on Aquatic Ecosystems	Fuel spills, due to accidents during construction refuelling and accidents during operation, entering the watercourses		✓	✓	Entire Corridor	Fish kills due to chemical spills resulting in short term population decline.	No refuelling within 10 m of a watercourse. [1] Emergency Response Plan. [2]	Short term population decline. Some contaminants within storm-water system.	None practical	Insignificant	None required	York Region	Status – [1] Ongoing Status – [2] Complete [1] During construction activities, daily inspections are undertaken. The Environmental Inspector checks the fueling and maintenance areas, which are required to be located at a reasonable distance from any natural or constructed land drainage systems or water body (typically 30 to 50 m). [2] A site-specific Emergency Preparedness Plan is in place for the Project.	[1] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76) [2] Environmental Emergency Preparedness Plan, dated April 14, 2016 (ID#82)	Yes	[1,2] EF	Item [1]: Document ID#76 shows restriction >10m. Item [2]: Document ID#82 is the Environmental Emergency Preparedness Plan. This item closed.
(b)		Sediment laden stormwater entering watercourses during construction		✓		Entire Corridor	Fish kills and loss of aquatic habitat resulting in short term population decline.	Construction fencing at work areas near watercourses limiting area of disturbance.[1] Erosion and Sedimentation Control Plan.[2]	Short term population decline.	None practical	Insignificant	None required	York Region	Status – Ongoing [2] Erosion and sediment control measures will be in accordance with the Environmental Management Plan (EMP) Standards and Practices for Soil Erosions and Sediment Control. [1] The plans include erosion and sediment control installations, such as construction fencing at work areas near watercourses (e.g., H2W-STC-C1-200 included in Culvert C1 TRCA permit application). Approval applications to TRCA included erosion and sediment control measures, which were revised based on comments received from TRCA. MNRF provided a Letter of Advice listing conditions to be followed for the protection of aquatic species at risk.	[1] H2W-STC-C1-200 H2W – Highway 7 C1 Culvert – Staging and Erosion and Sediment Control Plan – August 2, 2016 (ID#52) [1] Letter from TRCA to YR: Permit No. C-160595 Application for permit under O.Reg. 166/06 on Bathurst Street- June 23,	Yes	[1,2] EF	Item [1]: Silt Fence is shown on plan in document ID#52. It is not clear that silt fence is for limiting area of disturbance or for sediment control. ACTION: In ACR 2017, include drawing with construction fencing that clearly limits area of disturbance. Item [2]: Erosion and Sedimentation Control Plan for C1 shown in document ID#52 and supported by documents ID#66, ID#67, ID#91

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
(c)		Sediment laden stormwater entering watercourses during operation			✓	Entire Corridor	Loss of aquatic habitat resulting in population decline.	Stormwater management facilities such as grassed swales, oil and grit separators, stormwater ponds. Detailed Storm Water Management Plan will be prepared during the detailed design stage. [1]	Short term population decline.	Clean-out facilities as required.	Insignificant	Monitor sediment accumulation in stormwater management facilities.[2]	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Development of a Storm Water Management Plan (SWMP) is underway. The preliminary SWMP is provided in the Drainage Design Report. In order to achieve water quality controls up to the MOE water quality guideline of Enhanced Level (80% total suspended solids removal), storm water management facilities such as new oil/grit separator units are needed to treat runoff before discharge to the outlets (drawings 122, 123, 126, 127, 130 to 133 of ID#95). The design also includes continuity strip / planter and	[1] Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19) [1] H2E-CIV-NC-122 to 159 H2E-Civil Works – New Construction – August 10, 2016 (ID#95)	Yes	[1,2] AC	Item [1] it is accepted that SWMP is under development and the preliminary is shown in documents ID#95 and H2 VMC-Drainage Study-Part1-2 (incorrectly numbered as ID#19). ACTION: Correct reference number for 2017 ACR Item [2] it is accepted that post-construction monitoring is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
													permeable pavers to enhance water quality treatment. [2] Monitoring to take place post-construction. Maintenance plans will be updated post-construction if necessary.					
C1 cont'd (d)		Loss of site-specific habitat.		✓		All watercourses within entire corridor.	Potential loss of fish habitat as a result of new culverts/bridges, culvert/bridge extensions and/or culvert/bridge replacements or repairs.	Design transitway cross sections to avoid modifications at culverts/bridges. Span meander belt or 100-year erosion limit of the watercourse. Avoid in-water work to the extent possible. Minimize the area of in-water alteration to the extent possible. Follow in-water construction timing restriction. Perform all in-water work in the dry using a temporary flow bypass system.	A harmful alteration of fish habitat will likely result from culvert modifications at approximately 25 culverts that convey watercourses that support fish habitat.	Negotiations with regulatory agencies during detail design. Compensate for the harmful alteration of fish habitat. [1]	Insignificant	On-site environmental inspection during in-water work. [2] Post-construction monitoring of fish habitat compensation measures. [3]	York Region	Status – [1] Ongoing Status – [2,3] Future Work [1] DFO Self-Assessment was carried out for Crossings C1, C7, and C4 (Highway 400 area). No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. A Self-Assessment determined that a DFO Project Review would be required based on various criteria including channel modifications and changes to footprint below high water mark. Preparation of Project Review documentation for submission to DFO is underway. [2] No in-water construction works have occurred during this reporting period. Aquatic inspections will be undertaken by the Environmental Inspector when these works occur in the future. [3] Post-construction monitoring is future work	[1] DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) [(D#64) [2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1] EF	Item [1]: Document (ID#64) provides the criteria for self-assessment. SUGGESTION: The Meeting minutes dated June 24, 2010 between TRCA and YC provided in 2010 ACR may help bolster this commitment. Item [2]: Document ID#76 provides the environmental inspection criteria for in water work. ACTION: Item [2] status should be changed to “Ongoing” in the 2017 ACR to avoid confusion with items that are not addressed until operations.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
(e)	Minimize adverse effects on Aquatic Ecosystems (cont'd)	Fish mortality		✓		All watercourses within entire corridor.	Fish may be injured or killed by dewatering.	Design transitway cross sections to avoid modifications at culverts/bridges. Avoid in-water work to the extent possible. [1] Perform all in-water work in the dry using a temporary flow bypass system. [2] Capture fish trapped during dewatering of the work zone and safely release upstream. [3] Prohibit the entry of heavy equipment into the watercourse.	None expected.	None	Negligible	[4] On-site environmental inspection during in-water work.	York Region	Status – [1] Complete Status – [2,4] Future Work Status – [3] Ongoing [1] In-water works are only proposed at Culverts C1, C8 and C7. Works will occur in the dry where necessary. Refer to Item 41 for further details. [2, 4] No in-water construction works have occurred during this reporting period. Aquatic inspections will be undertaken by the Environmental Inspector when these works occur in the future. [3] Fencing will be used to delineate the construction zone of natural areas (i.e., watercourse crossings and TRCA regulated areas) to prohibit the entry of heavy equipment. Photograph 3 of Appendix C to the August 2016 Environmental Monthly Report shows implementation of silt and tree protection fencing at Bathurst Street and Flamingo Road intersection during construction activities.	[2, 4] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76) [3] H2E-LND-TREE-208 H2E-Bathurst Street Streetscaping Design Street Tree Preservation Plan – August 12, 2016 (ID#40)	Yes	[1,3] EF [2,4] AC	Item [1]: Documents in item 41 show that in-water works will be in the dry. ACTION: Status should be changed to “Ongoing” in the 2017 ACR as work has not started. Items [2,4]: Ongoing ACTION: Item [2] status should be changed to “Ongoing” in the 2017 ACR to avoid confusion with items that are not addressed until operations. Item [3]: An example of protection fencing is shown in (ID#76).

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1 cont'd (f)		Barriers to fish movement.		✓	✓	All watercourses within entire corridor.	Culvert/bridge extension, repair or replacement may create a barrier to fish movement.	Use open footing culverts or countersink closed culverts a minimum of 20% of culvert diameter. Span the watercourse, meander belt or floodplain with new structures where warranted by site conditions.	Culvert extensions will be designed to avoid the creation of a barrier to fish movement.	Negotiations with regulatory agencies during detail design. [1]	Negligible	On-site environmental inspection during in-water work. [2]	York Region	Status – Ongoing [1] Channel designs for Culvert C1 attempt to mitigate pre-existing fish passage barriers while also addressing significant dynamic stability issues with the current channel. Designs have been submitted to TRCA for approval and will be submitted to DFO for review. Crossing C7 and C8 are not currently considered to be direct fish habitat and will not require the same level of consideration, pending outcome of DFO Project Review. [2] No in-water construction works have occurred during this reporting period. Aquatic inspections will be undertaken by the Environmental Inspector when these works occur in the future.	[1] Letter from EDCO to TRCA - Application for Crossing C1 at Highway 7, vivaNext BRT Expansion - September 2, 2016 (ID#63) [1] Aquatic Ecosystem Existing Conditions Report. September 2016 (ID#58) [2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1] EF [2] EF	Item [1]: document [ID#58] supports that negotiations with regulatory agencies during detail design is occurring. Item [2]: document [ID#76] supports that inspections occur. These need to include in-water works, when needed.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1 cont'd (g)		Baseflow alterations		✓	✓	All watercourses within entire corridor.	New impervious surfaces can lead to changes in the frequency, magnitude and duration of flows.	Reduce the area of impervious surfaces to the extent possible. Use stormwater management practices that encourage infiltration and recharge of groundwater.[1]	None expected.	None	Negligible	Post-construction inspection of stormwater management facilities to evaluate their effectiveness.[2] On-going maintenance as required.[3]	York Region	Status – [1] Ongoing Status - [2,3] Future Work [1] A detailed hydrologic analysis was conducted to calculate pre- and post-development conditions flow at various crossing locations. The analysis concluded that the quantity of runoff from the improved section of roadway will not result in a significant increase in runoff, and as such, specific techniques to reduce the quantity and rate of runoff were not required (Section 3.1.3 and Appendix D. The preliminary SWMP is provided in the Drainage Design Report. Permeable pavers on both side of road and continuity strip / planters are recommended for inclusion in the design to enhance infiltration (Sections 1.1.3 and 3.1.4). These storm water features will be incorporated into the streetscape design. [2, 3] Monitoring to take place post-construction.	[1] Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes	[1] EF [2,3] AC	Item [1] Drainage including infiltration is ongoing. Document H2 VMC-Drainage Study-Part1-2 (incorrectly numbered as ID#19). ACTION: Correct reference number for 2017 ACR Items [2,3] it is accepted that post-construction monitoring and maintenance is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1 cont'd (h)	Minimize adverse effects on Aquatic Ecosystems (cont'd)	Increased temperature	✓	✓	All watercourses within entire corridor	Clearing of riparian vegetation and stormwater management practices can impact temperature regimes.	Minimize the area of stream bank alteration to the extent possible. [1] Use stormwater management practices that encourage infiltration and recharge of groundwater. [2]	Shading provided by culvert/bridge offsets shading lost through removal of riparian vegetation. [3]	Restore riparian areas disturbed during construction with native vegetation. [3]	Negligible	Post-construction inspection of stormwater management facilities to evaluate their effectiveness. [4] On-going maintenance as required. [5] Post-construction inspection of riparian plantings to confirm survival. [6]	York Region	Status – [1,2,3] Ongoing Status – [4,5,6] Future Work [1] Minimizing the area of stream bank alteration is being considered through geomorphic design development at Culverts C1 and C4. Geomorphology Reports are being prepared. See Item 32. [2] The preliminary SWMP is provided in the Drainage Design Report. Permeable pavers on both side of road and continuity strip / planters are recommended for inclusion in the design to enhance infiltration (Sections 1.1.3 and 3.1.4). These storm water features will be incorporated into the streetscape design. [3] A review of the existing aquatic conditions was undertaken during detailed design. The updated Aquatic Ecosystems Existing Conditions Report includes recommendations to restore riparian areas with native species, such as woody riparian vegetation. Based on this recommendation and ongoing discussions with the TRCA, site-specific restoration plans will be prepared as a component of permitting where required. For example, a Terrestrial Restoration Plan was prepared to support the TRCA permit application at Culvert C1. The plan identifies shrub plantings and a tree restoration zone for replacement plantings using native species (e.g., Sugar Maple, Black Walnut and Bur Oak). [4] [5] [6]: Items to be implemented post-construction.	[1] H2W-CIV-C1-100 to 104 H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20) [2] Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19) [3] Technical Memorandum – Terrestrial Restoration Plan – Crossing C1 Inlet and Outlet Channels – August 30, 2016 (ID#28) [3] Aquatic Ecosystem Existing Conditions Report – September 1, 2016 (ID#58)	Yes	[1 AC, 2,3] EF [4,5,6] AC	Item [1]: Accepted that this item is ongoing. Item [2]: Document ID#19 supports use of pavers and water quality improvement practices. Item [3]: The ongoing consideration of restoring riparian areas disturbed during construction with native vegetation is supported by documents ID#28 and ID#58. Items [4,5,6]: it is accepted that post-construction monitoring and maintenance is Future Work.	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1 cont'd (i)		Disturbance to rare, threatened or endangered species		✓	✓	All watersheds within entire corridor.	Humber River watershed known to support Redside dace, American brook lamprey, and central stoneroller. Don River watershed known to support Redside dace and American brook lamprey. Rouge River watershed known to support Redside dace, American brook lamprey, and central stoneroller.	Design transitway cross sections to avoid modifications at culverts/bridges. Mixed traffic operation has been introduced at the Humber River, West Don River, East Don River and Little Rouge Creek bridges to avoid widening and disturbance to rare, threatened and endangered species. Avoid in-water work to the extent possible. Perform all in-water work in the dry using a temporary flow bypass system. Capture fish trapped during dewatering of the work zone and safely release upstream. Prohibit the entry of heavy equipment into the watercourse.	None expected.	None required.	Negligible	None required.	York Region	Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
C2 (a)	Minimize adverse effects on Terrestrial Ecosystems	Loss of wildlife habitat and ecological functions		✓	✓	Entire corridor.	Construction of the transitway and associated facilities may result in the removal of vegetation and ecological functions it supports.	Minimize the area of vegetation removals to the extent possible.[1] Minimize grade changes to the extent possible.[2] Use close cut clearing and trimming to	None expected.	Restore natural areas disturbed using construction with native vegetation, where feasible.[6]	Negligible	None required.	York Region	Status – [1,2,3] Complete Status [4,5,6] Future work A majority of the ROW vegetation is of anthropogenic origin with natural areas primarily adjacent to watercourses. [1] Where feasible, vegetation removals are minimized through design and access / staging plans. For example, vegetation removals are minimized at Bridges B2, B3	[1] H2E-STC-B2 – H2E-B2-Bathurst Street over Hwy 407 B2 Structure – August 2, 2016 (ID#71) [1] H2E-STC-B3 – H2E-B3-	Yes	EF[1-7]	Item [1]: Document ID#71 is an example of a bridge is being rehabilitated and not widened, which is expected to minimize the area of vegetation removals. Item [2] Document ID#93 regards grade. Item [3]: Cutting and trimming to minimize the number of trees

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
							minimize the number of trees to be removed.[3] Delineate work zones using construction fencing/tree protection barrier.[4] Protect trees within the clear zone using guiderail, curbs, etc. to prevent removal.[5]			Replace ornamental vegetation as part of landscaping [7].			and B4, which will undergo rehabilitation without any widening. [6] Where temporary vegetation removal is unavoidable, natural areas will be restored with native vegetation, such as Sugar Maple and other native species that were identified as tree replacement options at Culvert C1. TRCA discussions regarding vegetation removals are ongoing. Additional restoration plans, if required, will be prepared as a component of permitting. [2] The Project Agreement includes the specification to design the horizontal and vertical alignment to ensure it fits with the existing topography to minimize property impacts and grading. Earthworks are to be designed and constructed to meet the OPSS 206 Construction Specification for Grading. [4] Fencing will be used to delineate the construction zone of natural areas (i.e., watercourse crossings and TRCA regulated areas). Photograph 3 of Appendix C to the August 2016 Environmental Monthly Report shows implementation of silt and tree protection fencing at Bathurst Street and Flamingo Road intersection during construction activities. [3, 5] Tree Inventory and Preservation Reports / Plans include protection to mitigate impacts to existing trees. Refer to H2E-LND-TREE-200 for an example of tree protection zones and light duty hoarding protection measures and H2E-LND-TREE-002 for information on pruning. [7] Plant material is being selected based on York Region Forestry recommendations and salt tolerance, native species are being used where possible (Comment 182 of Comment Resolution Sheet S-10D1-011).	Bathurst St Bridge over Hwy 407 B3 July 29, 2016 (ID#72) [1] H2E-STC-B4 – H2E-B4-Hwy 7 Bridge over Yonge Street B4 Aug 2, 2016 (ID#73) [2] Project Agreement (H2-West And H2-East Segments) :Schedule 15, part 3, Section 2.2 (ID#93) [2] H2E-CIV-NC-001 H2E Civil Works New Construction Key Plan – Aug10, 2016 (ID#94) [2] H2E-CIV-NC-122 to 159 H2E-Civil Works Aug 10, 2016 (ID#95) [4] Monthly Env. Monitoring Report August 2016 (ID#39) [4] H2E-LND-TREE-208 H2E-Bathurst Street Streetscaping Design Street Tree Preservation Plan – August			injured and/or removed is shown in document ID#44. Item [4] Document ID#39 shows work zones delineated using construction fencing/tree protection barrier. Item [5]: Protecting trees are discussed in document (ID#44) Item [6] Restore with native vegetation, where feasible is discussed in document ID#44. Item [7]: Document ID#59 Replacing ornamental vegetation as part of landscaping s being considered.	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
														12, 2016 (ID#40) [3, 5] H2E-LND-TREE- (100%) Design Development Submittals_ Streetscape_Street Tree Preservation Plans_H2 East 1 of 2 – August 12, 2016 (ID#22) [6] Technical Memorandum – Terrestrial Restoration Plan – Crossing C1 Inlet and Outlet Channels – Attachment 2 – August 30, 2016 (ID#28) [7] Streetscape, Pedestrian and Landscape Design Requirements Comment Resolution Sheet S-10D1-011. – March 14, 2016 (ID#59)				

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
(b)		Wildlife mortality		✓	✓	Entire corridor.	Removal of wildlife habitat may result in wildlife mortality.	[1] Perform vegetation removals outside of wildlife breeding seasons (typically April 1 to July 31). [2] Perform culvert/bridge extension repair and replacement outside of wildlife breeding season.	None expected.	None required.	Negligible	None required.	York Region	Status – Ongoing A terrestrial wildlife survey was completed to determine what type of wildlife might be encountered on-site (Section 3.3 of ID#45). This included a Fall 2015 and Spring 2016 search for evidence of nesting birds on structures. Prior to vegetation removal during the breeding bird window (April 1 to August 30), due diligence nest searches were undertaken by an avian biologist (Section 2.1.3 of ID#77) to ensure that trees are cleared of nests and active wildlife. Trees were tagged once cleared and then removed / relocated within 2 days of being surveyed.	Environmental Monthly Report Logs - 2015 to 2016, dated September 28, 2016 (ID#77) Avian Nest Searches – Fall 2015 and Spring 2016 – October 31, 2016 (ID#103) Terrestrial Existing Conditions Report – August 29, 2016 (ID#45).	Yes	[1] ECF [2] AC	Item [1] Documents ID#77, ID#103, and ID#45 support that next clearing survey was done prior to tree removal but within the wildlife breeding season dates. Document ID#45 was not found. ACTION: Include document ID#45 in 2017 ACR [2] it is assumed that no action has begun on this item given the early stages of construction.
(c)	Minimize adverse effects on Terrestrial Ecosystems (cont'd)	Barriers to wildlife movement and wildlife/vehicle conflicts		✓	✓	Entire corridor	Culvert/bridge extension, repair or replacement may create a barrier to wildlife movement. Increase in width of Highway 7 to accommodate transitway and associated facilities may create an additional impediment to wildlife movement and increase the potential for wildlife/vehicle conflicts. New crossings at Upper Rouge River & Rouge River Tributary 4 may create a barrier to wildlife movement.	Maintain or enhance riparian corridors and terrestrial wildlife passage under new/realigned bridges. [1] New or modified culverts and bridges will be investigated during preliminary and detail design to identify opportunities to promote wildlife passage. Methods to enhance wildlife passage such as increasing vertical and horizontal clearances, drift fence, dry benches, etc. will be taken into consideration.	Transitway represents an incremental increase in road width compared to existing barrier created by Highway 7. Required culvert extensions will not impede wildlife passage under Highway 7.	Use of existing culverts/bridges maintains wildlife passage under transitway and does not offer opportunities to enhance wildlife passage.	Insignificant at new/realigned bridges with appropriate mitigations	None required.	York Region	Status – Completed Wildlife passage at crossings where culvert extensions are required was investigated during detailed design. All crossings were reviewed to determine feasibility of wildlife passage and only those locations where wildlife corridors may be present were investigated (i.e., culverts C1, C7 and C8/C9) for improvement options. The height and width of the culverts will remain unchanged. Although the openness ratio of each culvert will decrease as a result of the extensions, there is no evidence that changes in these parameters will negatively impact culvert passage by the medium to small wildlife species. Recommendations to enhance wildlife passage includes reinstating permanent vegetation cover to create a funneling effect for wildlife.	Technical Memorandum: Wildlife Passage at Key Culvert Crossings – August 26, 2016 (ID#42)	Yes	Closed (2016)	[1] Opportunities to promote wildlife passage were considered as evident by document ID#42. This item is closed.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C2 cont'd (d)		Wildlife/vehicle conflicts			✓	Entire corridor.	Increase in width of Highway 7 to accommodate transitway and associated facilities may increase the potential for wildlife/vehicle conflicts.	Span bridges across the meander belt. Use oversized culverts to promote wildlife passage under the road Stagger culvert inverts to create wet and dry culverts.	Transitway represents an incremental increase in road width compared to existing hazard to wildlife created by Highway 7.	None required.	Insignificant	None required.	York Region	Status- Complete Wildlife passage at crossings where culvert extensions are required was investigated during detailed design. All crossings were reviewed to determine feasibility of wildlife passage and only those locations where wildlife corridors may be present were investigated (i.e., culverts C1, C7 and C8/C9) for improvement options. The height and width of the culverts will remain unchanged. Although the openness ratio of each culvert will decrease as a result of the extensions, there is no evidence that changes in these parameters will negatively impact culvert passage by the medium to small wildlife species. Recommendations to enhance wildlife passage includes reinstating permanent vegetation cover to create a funneling effect for wildlife.	Technical Memorandum: Wildlife Passage at Key Culvert Crossings– August 26, 2016 (ID#42)	Yes	Closed (2016)	[1] The feasibility of oversized culverts to promote wildlife passage were considered as evident by document ID#42. This item is closed.
(e)		Disturbance to rare, threatened, or endangered wildlife			✓	Entire corridor.	Three rare species were identified within the study area: rough-legged hawk (non-breeding migrant/vagrant, extremely rare breeding occurrence by MNR); northern shrike (non-breeding migrant/vagrant, very rare to uncommon breeding occurrence by MNR); and, milk snake ('special concern' by COSEWIC, and 'rare to uncommon' by MNR)	Prevent the harassment of eastern milk snake if encountered during construction.[1] Perform vegetation removals outside of wildlife breeding seasons (typically April 1 to July 31). [2] Perform culvert/bridge extension, repair and replacement outside of wildlife breeding season [3]	None expected.	None required.	Negligible	None required.	York Region	Status – [1,2] Ongoing Status [3] Future Work [1] Consultation with the MNRF has been initiated to ensure that any newly regulated SAR that are not reported by the MNRF are considered prior to construction. While none of the mentioned species were specifically identified as being in the project limit in correspondence with MNRF, other SAR were included and are identified in the Terrestrial Existing Conditions Report. A review of the existing conditions and of changes to the <i>Endangered Species Act</i> since the completion of the EA was also undertaken to provide the most current list of SAR potentially affected by the Project. Based on the review, only Eastern Meadow Lark and Barn Swallow have been identified as potentially present within the Project limits. Based on the type of natural areas present within the Project limits, Eastern	[1, 2] Terrestrial Existing Conditions Report – August 29, 2016 (ID#45) [1] E-mail and letter from MNRF – Information Request, November 17, 2015 (ID#68). [2] Avian Nest Searches – Fall 2015 and Spring 2016 – October 31, 2016 (ID#103) [2]	Yes	[1] EF [2] ECF [3] AC	Item [1]: For the eastern milk snake, the assertion is that it is not within the project limit. ID#68 supports this assertion. This item is closed. ACTION: Update status in 2017 ACR to "Completed" for Item [1] Item [2]: Documents ID#77, ID#103, ID#68 and ID#45 support that next clearing survey was done prior to tree removal that were done within the wildlife breeding season dates. Document ID#45 was not found. ACTION: Include document ID#45 in 2017 ACR [3] it is accepted that no action has begun on this item given the early stages of construction. ACTION: Changes status for item [3] to Ongoing in 2017

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
													Milk Snake is not likely to occur within the H2-West and H2-East segments. [2] A terrestrial wildlife survey was completed to determine what type of wildlife might be encountered on-site. This included a Fall 2015 and Spring 2016 search for evidence of nesting birds on structures (Section 3.3 of ID#45). Prior to tree removals, which were performed during the breeding bird window (April 1 to August 30), due diligence nest searches by an avian biologist prior to removal / relocation to ensure that trees are cleared of nests and active wildlife (Section 2.1.3 of ID#77). Trees were tagged once cleared and then removed / relocated within 2 days of being surveyed. [3] Culvert and bridge construction works have not commenced during this reporting period.	Environmental Monthly Report Logs - 2015 to 2016, dated September 28, 2016 (ID#77)			ACR.	
(f)	Minimize adverse effects on Terrestrial Ecosystems (cont'd)	Disturbance to vegetation through edge effects, drainage modifications and road salt	✓	✓	Entire corridor.	Clearing of new forest edges may result in sunscald, windthrow, and invasion of exotic species. Ditching, grading and other drainage modifications may alter local soil moisture regimes. Road salt may result in vegetation mortality and die back.	[1] Minimize the area of vegetation removals to the extent possible. [2] Minimize the grade changes and cut/fill requirements to the extent possible. [3] Use close cut clearing and trimming to minimize encroachment on remaining vegetation [4] Delineate work zones using construction fencing/ tree protection barrier. [5] Manage the	Vegetation communities within the study area are primarily cultural in origin and have been impacted by Highway 7. The transitway represents an incremental encroachment into these already disturbed communities.	Landscape treatments.	Insignificant	None required.	York Region	Status – [1,2,3] Complete Status - [4,5,6,7] Ongoing A majority of the ROW vegetation is of anthropogenic origin with natural areas primarily adjacent to watercourses. [1] Where feasible, vegetation removals are minimized through design and access / staging plans. For example, vegetation removals are minimized at Bridges B2, B3 and B4, which will undergo rehabilitation without any widening. [6, 7]. Where temporary vegetation removal is unavoidable, natural areas will be restored with native vegetation. For example, the Restoration Plan for Culvert C1 identifies Sugar Maple and other native species as tree replacement options in accordance with TRCA guidelines.	[1] H2E-STC-B2 – H2E-B2-Bathurst Street over Hwy 407 B2 Structure – August 2, 2016 (ID#71) [1] H2E-STC-B3 – H2E-B3-Bathurst St Bridge over Hwy 407 B3 Structure – July 29, 2016 (ID#72) [1] H2E-STC-B4 – H2E-B4-Hwy 7 Bridge over Yonge Street B4 Structure –	Yes	[1] EF 2	Item [1]: Document ID#71 is an example of a bridge is being rehabilitated and not widened, which is expected to minimize the area of vegetation removals. Item [2] Document ID#93 regards grade. Item [3]: Cutting and trimming to minimize the number of trees injured and/or removed is shown in document ID#44. ACTION: Update status of Items [1,2,3] to Ongoing as work is not completed. Item [4] Document ID#39 shows work zones delineated using construction fencing/tree protection barrier. Item [5]: Salt Management is a	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
							application of road salt to the extent possible. [6] TRCA guidelines for Forest Edge Management Plans & Post-Construction Restoration will be followed. [7] All valley lands disturbed will require restoration with native herbaceous & woody species.						TRCA discussions regarding vegetation removals are ongoing. Additional restoration plans, if required, will be prepared as a component of permitting. [6] An Edge Management Plan was also prepared for Culvert C1, the only forest edge to be impacted by the Project. The plan was prepared following TRCA guidelines for Forest Edge Management Plans. [2] The Project Agreement for Design, Build, and Finance includes the specification to design the horizontal and vertical alignment to ensure it fits with the existing topography to minimize property impacts and grading. Earthworks are to be designed and constructed to meet the OPSS 206 Construction Specification for Grading. [3] Tree Inventory and Preservation Reports / Plans include protection to mitigate impacts to existing trees. Refer to H2E-LND-TREE-002 for information on pruning [4] Fencing will be used to delineate the construction zone of natural areas (i.e., watercourse crossings and TRCA regulated areas). Photograph 3 of Appendix C to the August 2015 Environmental Monthly Report shows implementation of both silt fencing and tree protection fencing at Bathurst Street and Flamingo Road intersection during construction activities. [5] YR Operations has an ongoing winter maintenance program which minimizes the	August 2, 2016 (ID#73) [2] Project Agreement To Design, Build And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments): Schedule 15, Part 3, Section 2.2 (ID#93) [2] H2E-CIV-NC-001 H2E Civil Works New Construction Key Plan – August 10, 2016 (ID#94) [2] H2E-CIV-NC-122 to 159 H2E-Civil Works – New Construction – August 10, 2016 (ID#95) [3] H2E-LND-TREE-002 H2E-Centre Street, Bathurst Street & Highway 7 Streetscape Design Legend – August 8, 2016 (ID#23)			operational item. ACTION: Update status to Future Work in 2017 ACR Item [6] Edge Management Plan (ID#27) refers to compliance with TRCA guidelines	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
													use of salt on roads. Winter maintenance practices for the rapid transit facility will be established closer to the time of commencement of operations.	[4] Monthly Environmental Monitoring Report August 2016 – September 9, 2016 (ID#39) [4] H2E-LND-TREE-208 H2E-Bathurst Street Streetscaping Design Street Tree Preservation – August 12, 2016 (ID#40) [5] YR Winter Maintenance Program Report - June 28 2012 (ID#43) [6] Technical Memorandum - Edge Management Plan – August 26, 2016 (ID#27) [5] YR Winter Maintenance Program Report - June 28 2012 (ID#43) [6, 7] Technical Memorandum – Terrestrial Restoration Plan – Crossing C1 Inlet and Outlet Channels –				

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
														Attachment 2 – August 30, 2016 (ID#28)				
C2 cont'd (g)		Disturbance to rare, threatened or endangered flora		✓		Entire Corridor.	<p>Twenty-two regionally rare or uncommon species are located within the study limits including: Black Walnut, Common Evening Primrose, Cut-leaved Toothwort, Groundnut</p> <p>Hitchcock's Sedge, Michigan Lily, Ninebark,</p> <p>Purple-stemmed Angelica, Red Cedar, Red Pine, Red-sheathed Bulrush, Sandbar Willow</p> <p>Shining Willow, Showy Tick-trefoil, Spike-rush</p> <p>Spotted Water Hemlock, Spring-beauty, Stickseed, Tall Beggar-ticks, Three-square</p> <p>Turtlehead, and Virginia Wild-rye.</p>	<p>Minimize the area of vegetation removals to the extent possible.[1]</p> <p>Minimize grade changes to the extent possible.[1]</p> <p>Use close cut clearing and trimming to minimize the number of trees to be removed.[1]</p> <p>Delineate work zones using construction fencing/ tree protection barrier.[1]</p> <p>Protect trees within the clear zone using guiderail, curbs, etc. to prevent removal.[1]</p> <p>Transplant rare species to safe areas prior to construction.</p>	<p>Trees may be removed by the transitway and its associated facilities.</p>	None required.	Insignificant	Monitor clearing activities to ensure that minimum work zones are used to avoid any unnecessary tree removal.[3]	York Region	<p>Status – [1] Closed, [2,3] Ongoing</p> <p>[1] – These items are the same as and addressed by C2(f) above. A review of changes to the <i>Endangered Species Act</i> since the completion of the EA was undertaken to provide the most current list of SAR potentially affected by the Project. Consultation with the MNRF has been initiated to ensure that any newly regulated SAR that are not reported by the MNRF within the Project are considered prior to construction.</p> <p>[2] During terrestrial field surveys in support of detailed design, the following rare species were identified: Ohio Buckeye and Black Walnut. 14 of these trees will be protected / not affected during construction and 1 has been transplanted. The remaining trees of these species (21) have been removed.</p> <p>40 Kentucky Coffee-trees planted by York Region were identified in the tree inventory. 19 trees will be protected / not affected during construction. The remaining trees have been removed (19) or transplanted (1).</p> <p>[3] Daily environmental inspection is completed to ensure that tree hoardings are installed per the Tree Preservation Plans, there is an appropriate buffer and that the hoarding remains functional (i.e., free of rips).</p>	<p>3rd Issue Tree Inventory and Preservation Report H2-East Segment – Part 1 of 2 Centre Street and Bathurst Street – August 9, 2016 (ID#21)</p> <p>[1] 2nd Issue Tree Inventory and Preservation Report H2-West Segment – August 19, 2016 (ID#44)</p> <p>[1] Terrestrial Existing Conditions Report – August 29, 2016 (ID#45)</p> <p>[2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)</p>	Yes	[1-3] EF	<p>Item [1] – Agree that these items are the same as and addressed by C2(f) above. No further reporting is warranted here and this item is closed.</p> <p>Item [2] Document ID#21 identified 37 trees were identified for transplanting in H2-East. Document ID#44 indicates “no trees were identified for transplant in H2-West. Note: ID#45 was not found. ACTION: Please provide document ID#45 for 2017 ACR.</p> <p>Item 3: Document ID#76 shows monitoring.</p>

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C3 (a)	Improve regional air quality and minimize adverse local effects	Degradation of existing local and regional air quality when compared to MOE standards			✓	York Region	Situation expected to be unchanged or marginally better than 2001	The fleet average emissions will drop significantly due to technological improvements balancing the increase in traffic volumes. The BRT will divert commuters from individual highly polluting sources (single passenger automobiles)	Forecast improvement in all pollutants assessed (PM ₁₀ , NO _x , SO ₂ , CO) when comparing 2021 forecasts with and without the proposed Rapid Transit (see Tables 4.3 & 4.4 of Appendix L, 3.6% decrease in PM ₁₀ & CO, 4.4% in SO ₂)	None required	Positive Effect	None recommended	York Region	Status – Completed An updated Air Quality Impact Assessment Report for a Study Area Bounded by Hwy50 to York Durham Line was completed in April 2011 as required in the CMP. The MOE accepted the air quality assessment report on June 17, 2011 and is satisfied that Condition 5.4 of the EA Notice of Approval has been addressed.		Yes	Closed (2013)	
(b)		Increase in emissions of Greenhouse Gases (GhG)			✓	York Region	Fewer GHGs are expected to be emitted	Compared to the status quo (no additional transit) there will be far less GHGs emitted per commuting person	Reduction per capita emissions of GHGs (overall annual reduction of 54 kilotonnes of CO ₂ forecast in 2021)	None required	Positive Effect	None recommended	York Region	Status – No Action Required		Yes	Closed (2015)	
C3 cont'd (c)		Degradation of air quality during construction			✓	Highway 7 Corridor	Some dust is expected during the construction period.	The law requires that all possible pollutant emission mitigation steps possible be taken during construction activities	Some PM emissions locally.	None required.	Negligible	Regular inspection of site dust [1] and construction vehicle exhaust emissions [2] during construction in compliance with MOE's standards and municipal by-laws.	York Region	Status – Ongoing [1, 2] Weekly dust and air inspections are undertaken by the Environmental Inspector to ensure that the site is not excessively dusty and the air quality is satisfactory. This includes checking that paved areas are free of soil and no idling of equipment when not in use.	[1, 2] Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1,2] EF	Items [1] and [2] document ID#76 supports the assertion regarding air quality monitoring
C4 (a)	Minimize adverse effects on corridor hydro-geological, geological, hydrological and geomorphic conditions	Water quality in shallow groundwater that can affect quality in surface watercourses			✓	Areas located hydraulically down gradient of transit alignment,	Transitways will require de-icing salt and also will accumulate various chemical substances that can impact water quality of runoff. Impacted runoff that infiltrates can	Dilution and other natural processes will attenuate elevated parameters in groundwater.	Potential effects to water quality of surface water courses. Groundwater quality effects are anticipated	Reduce application of road salt, where possible [1]. Curbs and gutters to	Moderately Significant	None required. Water quality effects are anticipated to remain acceptable.	York Region	Status – [1] Future Work [2] Ongoing [1] Winter maintenance practices for the rapid transit facility will be established closer to the time of commencement of operations. [2] New oil / grit separator units in addition	[2] Drainage Design Report for vivaNext H2-West and H2-East – September 13,	Yes	[1] AC [2] EF	[1] Accept that road salt management is an operational issue and future work. [2] Document ID#95 supports that most of the surfaces are impermeable where road salt is mostly used.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / Agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
						where receiving surface watercourses are present.	Increase concentrations in shallow groundwater. Potential to affect shallow groundwater that discharges to surface watercourses.		to be detectable.	convey impacted runoff away from permeable soil areas.[2]				to the existing oil / grit separators are proposed in the design to treat the roadway runoff before discharging to outlets (Section 3.1.4 and drawings 122, 123, 126, 127, 130 to 133 of ID#95). The proposed continuity strip / planter and permeable pavers will enhance water quality.	2016 (ID#19)			
(b)	Water quality in shallow groundwater that can affect quality in water supply wells				✓	Areas located hydraulically down gradient of transit alignment, where shallow dug wells in active use are present.	Transitways will require de-icing salt and also will accumulate various chemical substances that can impact water quality of runoff. Impacted runoff that infiltrates can increase concentrations in shallow groundwater. Potential to affect shallow groundwater that is extracted by down gradient supply wells.	Dilution and other natural processes will attenuate elevated parameters in groundwater.	Potential effects to groundwater quality used as drinking water. Groundwater quality effects in water wells may be detectable.	Reduce application of road salt, where possible.[1] Curbs and gutters to convey impacted runoff away from permeable soil areas. [2]	Moderately Significant	None required. Water quality effects are anticipated to remain acceptable within Ontario Drinking Water Standards. Well inspection will be performed during the detailed design phase to confirm the relationship of the widened roadway to existing active water well will not have an adverse effect on water quality. [3] If it does or domestic well use is confirmed, a contingency plan will be developed. [4]	York Region	Status – Ongoing [1] & [2] See Item C4 (a). [3, 4] Well review was undertaken as part of natural heritage report. A large majority of wells historically documented are no longer active. A review of water servicing along the corridor identified 20 properties for which water servicing could not be confirmed. However, it was found that the generation of additional de-icing salt and other road surface contaminants will not be significant, and the amount of impacted runoff that reaches adjacent pervious soil will be relatively low. Impacts to shallow groundwater are anticipated to be low. Continue to investigate one location as due diligence.	[3] Highway 7 Corridor & Vaughan North-South Link Public Transit Improvements Environmental Assessment Report – Appendix D: Natural Sciences Report – August 2005 (ID#30) [3] Water Taking Report In support of Dewatering During Construction VivaNext H2 East and H2 West Bus Rapid Transit Expansion, Regional	Yes	[1,2,3] EF [4] AC	Items [1] and [2]: Agree that these are the same as C4 (a) and will be tracked there. As this needs no updating here, these items are closed. ACTION: Update Status of [1] and [2] to completed in 2017 ACR Item [3] Document ID#30 indicates that the generation of additional de-icing salt and other road surface contaminants will not be significant, and anticipated impacts to be low. Item [4] contingency plan is accepted as being under consideration if needed.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
														Municipality of York, Ontario – August 2016 (ID#29)				
C4 cont'd (c)		Baseflow in surface water courses		✓	✓	Recharge areas within proposed alignment, particularly in areas of Newmarket Till and sand textured glacial lake deposits.	Increase of pavement area decreases the pervious area that existed prior to construction, resulting in proportionally decreased recharge to shallow groundwater.	N/A	Decreases in recharge can decrease baseflow in surface water course(s). Reduced baseflow in surface watercourses.	Construction of pervious surfaces where practical, including grassed areas and permeable pavements [1].	Negligible	None required. The degree of impact is anticipated to be undetectable.	York Region	Status – Ongoing A detailed hydrologic analysis was conducted to calculate pre- and post-development conditions flow at various crossing locations. The analysis concluded that the quantity of runoff from the improved section of the roadway will not result in a significant increase in runoff (Appendix D). The design includes permeable pavers on both side of road and continuity strip / planters to enhance infiltration. These storm water features will be incorporated into the streetscape design.	Highway 7 Segment H2 Islington Avenue to Richmond Hill Centre via Centre Street & Bathurst Street Preliminary Engineering Design Basis & Criteria Report FINAL June 2012. (ID#8680) Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes	EF [1]	Item [1]: Documents provided indicate that both the quantity of runoff from the improved section of the roadway will not be significant and that permeable pavers on both side of road and continuity strip / planters
(d)	Minimize adverse effects on corridor hydro-geological, geological, hydrological and geomorphic conditions (cont'd)	Increased pavement; decreased infiltration			✓	Entire corridor	Minor increase in quantity of surface runoff. Minor decrease in quantity of groundwater.	Storm water management facilities such as grassed swales and storm water ponds.[1]	Minor increase in peak streamflows. Minor decrease in groundwater.	None practical	Negligible	None required	York Region	Status – Ongoing A detailed hydrologic analysis was conducted to calculate pre- and post-development conditions flow at various crossing locations. The analysis concluded that the quantity of runoff from the improved section of the roadway will not result in a significant increase in runoff (Section 3.1.3 and Appendix D) The Drainage Design Report recommends that permeable pavers on both side of road (Section 1.1.3 and	Drainage Design Report for vivaNext H2-West and H2-East – September 13, 2016 (ID#19) H2W-CIV-C1-100 to 104	Yes	[1] ECF	Item [1]: Documents provided indicate that both the quantity of runoff from the improved section of the roadway will not be significant and that permeable pavers on both side of road and continuity strip / planters and not ponds or grassed swales.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
													3.1.4) and continuity strip / planters (Section 3.1.4) be included in the design to enhance infiltration. These storm water features will be incorporated into the streetscape design.	H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20)				
C4 cont'd (e)		Changes in flood levels from the widening of existing bridges and culverts			✓	Beaver Creek crossing at Sta 37+790	HEC-RAS model provided by TRCA was used to assess changes in flood level due to widening the existing culvert by 10 m.	No increase in Regional storm or return period flood levels upstream of the crossing. See Appendix G for results of the analysis.	N/A	N/A	Negligible	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2016)	
(f)					✓	Rouge River (Apple Creek) crossing at Sta 38+695	HEC-RAS model provided by TRCA was used to assess changes in flood level due to widening the existing bridge by 18 m.	Regional storm flood level upstream of the bridge would increase by up to 50 mm. No increase in return period flood levels upstream of the crossing. See Appendix G for results of the analysis.	Minor increase in Regional storm flood level. Widening will not adversely impact upstream water levels.	N/A	Negligible	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2016)	
(g)					✓	Rouge River crossing at Sta 43+256	HEC-RAS model provided by TRCA was used to assess changes in flood level due to widening the existing bridge by 8 m.	No increase in Regional storm flood levels. Return period flood levels upstream of the crossing would increase by up to 30 mm. See Appendix G for results of the analysis.	Minor increase in return period flood levels. Widening will not adversely impact upstream water levels.	N/A	Negligible	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2016)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-3 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C4 cont'd (h)		Changes in flood levels from the construction of a new bridge.			✓	Proposed Rouge River crossing at Sta 540+190	HEC-RAS model provided by TRCA was used to assess changes in flood level due to a proposed bridge with a width of 10 m and a span of 30 m.	Regional storm flood level upstream of the bridge would increase by up to 20 mm. The 100 year return period flood level would increase by 110 mm just upstream of the crossing. The increase for the 25 and 2 year events would be 50 mm and 0 mm respectively. See Appendix G for results of the analysis.	Minor increase in Regional storm flood level. Increase in 100 year flood level. The 100 year flood level is over 2 m below the Regional storm flood. No change in existing regulatory floodline or developable area.	N/A	Negligible. The 100 year flood level is contained within the Regional storm flood plain and the increase is not significant.	None required.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2016)	

Notes: P – Pre construction, C – Construction, O – Operation

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
D1 (a)	Support Regional and Municipal Planning Policies and approved urban structure	Need for pedestrian-friendly streets and walkways for access to stations		✓	✓	Entire corridor	Streetscape will create a more pedestrian-friendly atmosphere.	Signalized pedestrian crosswalks will be provided at all station locations and an appropriate number of intersections[1] ; Pedestrian safety will be considered in the design of station precincts [2] and road signage will be highly visible to both pedestrians and automobiles [3].	Potential for jaywalking in vicinity of stations, which could lead to increase in number of vehicle/pedestrian incidents.	Platform edge treatment will discourage illegal access [4]	Negligible	Monitor traffic accidents involving pedestrians to establish whether cause is transit related.[5]	York Region	Status – [1,2,3,4] Ongoing Status - [5] Future Work [1] The detailed traffic signal design is underway and will comply with the AODA standards, including the design of pedestrian crossings. Bike signals will also be provided where multi-use path crossings occur. [3] The location of roadway signage is provided in the 90% Pavement Marking and Signage Design drawings. Pavement markings and signage locations are placed to be highly visible to pedestrians and automobiles, and is designed to meet the requirements of York Regions standards, the Ontario Traffic Manual Book 18: Cycling Facilities (2014), Mm's Technical Memo on vivaNext cycle path dated March 12, 2015, and TAC's Bikeway Traffic Control Guidelines for Canada (2012),	[3] H2E-CIV-PM-001 to 114 H2E Pavement Markings and Signage – August 10, 2016 (ID#92) [3] H2E-CIV-SIGN-110 to 128 H2E Pavement Markings and Signage – August 2016 (ID#96) [4] H2WH2E-STS-CONC-Ninety Percent (90%) Design Development Submittals Stations Platforms Concrete – July 21, 2016 (ID#16)	Yes	[1]AC [2-4] EF [5] AC	Item [1]: Accepted that signalized pedestrian crosswalks locations is under development. Items [2&3] pedestrian and cyclist safety and road signage are shown in documents ID#92 and ID#96. Item [4] Document ID#16 showing barrier wall was found to support assertion. Item [5] Accepted that monitoring of traffic during operations is Future Work.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
													[4] Stations will include barrier walls at all platforms to protect pedestrian during operations. Barrier walls are shown on drawings H2WH2E-STS-CONC-304 through H2WH2E-STS-CONC-313 and are designed to the Ontario Provincial Standard for Roads and Public Works. [5] A monitoring program will be carried out following the commencement of operation.					
D1 cont'd (b)		Locating higher density and transit-oriented development where it can be served by transitway			✓	New and redevelopment/infill locations	Current landowners could object to implementation of existing land use pattern changes along transit corridor.	Regional/Municipal land use controls and approval processes to encourage transit-oriented development or re-development in support of OP objectives.	Redevelopment pressure on surrounding areas	Apply Municipal Site Plan approval process	Insignificant	[1] Monitor re-development activity to control overall increase in development density	York Region / Vaughan / Markham / Richmond Hill	Status – Ongoing Development activity is being monitored.	Site Plan Tracker (ID#60)	Yes	[1] EF	Item [1]: Document ID#60 supports the assertion that development activity is monitored.
(c)		Reflection of historical districts through urban design and built form.			✓	Main Street Markham	Station aesthetics may not be compatible with the character of heritage districts along the corridor.	In the area of Main Street, the rapid transit is discontinued with rapid transit operating in mixed traffic. Incorporate station designs and features that reflect the surrounding historical districts where further redevelopment is limited through consultation with community and	Historical district is generally north of Highway 7.	Apply Municipal Site plan approval process	Insignificant	Municipalities to monitor nature of re-development in sensitive districts	York Region / Markham	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility													Compliance Monitoring			Compliance Review (MMM)		
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
D2	Provide convenient access to social and community facilities in corridor	Potential barrier effects during construction and operation		✓	✓	Entire corridor	Transitway could be perceived as a barrier in access to future community centres, hospital(s), malls, parks, etc.	Construction Traffic and Pedestrian Management Plan will avoid wherever possible, barriers to entrances/exits to large attractors along Highway 7.	Alternative access routes to facilities may affect adjacent properties	Mark detours and alternative access points clearly	Insignificant	Monitor congestion levels during construction [1] and traffic patterns during operations [2].	York Region	Status – [1] Ongoing Status – [2] Future Work [1] Traffic Management Plans are prepared to ensure pedestrian and vehicle circulation is maintained during construction activities. Access to social and community facilities, such as the Umca Rich Tree Academy, are considered in the preparation of the plans. Pedestrian and vehicle circulation are monitored by the site supervisions and modified should improvements be necessary. [2] Monitoring of traffic patterns during operation is future work to occur following construction	[1] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)	Yes	[1] NSE [2] AC	Item [1]: Document ID#79 is not sufficient evidence that monitoring of traffic will be occurring. ACTION: provide additional evidence that monitoring of congestion is undertaken during construction for 2017 ACR. Item [2] is a future work item (2015).
D3 (a)	Minimize adverse effects on business activities in corridor	The potential for an increase in business activity.	✓	✓	✓	Entire corridor	Increased pedestrian traffic via the implementation of a rapid transit system will increase the potential for business activity.	A higher density of development on underutilized sites, infill locations and on vacant land should increase the market for some business activity.	Increase in vehicular traffic; increase in workforce/ population.	Encourage intensification and meeting urban form objectives.	Insignificant and positive	[1] Monitor building applications/ permits, economic influences (employment rate, etc.)	York Region / Vaughan / Markham / Richmond Hill	Status – [1] Future Work [1] The effect of the rapid transit system on business activity will be monitored during operation		Yes	[1] AC	Item [1]: The assertion regarding Future Work is accepted.
D3 cont'd (b)		The potential for a decrease in business activity.		✓	✓	Entire corridor	Modification of road access could lead to displacement and/or business loss.	Implement procedures to address requests of affected businesses [1]; Incorporate design solutions and construction methods to	Decrease in traffic; decrease in workforce/ population	Encourage alternative compatible development	Moderately significant	Cooperative response to business loss concerns addressed to municipalities. [3]	York Region	Status – Ongoing [1] Complaints and Incident procedures are in place to receive complaints / incidents, evaluate and mitigate	[1] Community Liaison Protocol (ID#32) [1] Memorandum	Yes	[1,2] EF	Item [1]: Document ID#86 supports the assertion regarding complaints. Item [2]: Document ID#79 supports the assertion regarding traffic management practices.

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
							minimize number of businesses affected.[2]						the root cause. This includes a procedure to receive and address requests of affected businesses. For example, a business owner was concerned about receiving a shipment from delivery trucks since the driveway was partially blocked. [2] Traffic Management Plans are prepared to ensure accesses to businesses are maintained during construction activities. Business access is monitored by the site supervisions and modified should improvements be necessary.	#2016-03: 2016 Summary Memo - Incidents and Complaints, dated September 30, 2016 (ID#86) [2] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)			Item [3]: It is accepted that a cooperative response will be undertaken for a concern when received. ACTION: For the 2017 ACR, please detail if any concerns of business loss are received and how they were cooperatively resolved.	
D4 (a)	Protect provisions for goods movement in corridor	Ease of Truck Movement			✓	Entire Corridor	Median transitway will restrict truck movement in corridor	Provided U-turns at major intersections to allow for truck access to side streets and properties. Traffic analysis at intersections indicated sufficient capacity for trucks using U-turns.	In areas of 4-lane cross-section, intersections with no station or landscaping in median do not allow sufficient turning width for WB 17 (articulated trucks).	Traffic signs prohibit large truck at these intersections (see next entries). [1] Designate truck routes. [2]	Insignificant	Monitor and widen Highway 7 with right turn tapers at side streets to allow for movement [3]	York Region	Status – Ongoing [1] Preparation of the 90% traffic signals design is underway. The signal timings will be re-optimized for every construction stage and each intersection will be reviewed on case by case basis for any turning prohibitions. [2] In addition, U-turns will generally be permitted at signalized		Yes	[1-3] AC	Item [1,2] Accepted that traffic signal design and permitted truck access is underway Item [3] Accepted that monitoring is post-construction and Future Work. ACTION: Update the Status to reflect Item [3] as Future Work in 2017 ACR

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility												Compliance Monitoring			Compliance Review (MMM)			
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
													intersections to facilities access to community features such as shopping centres. Single Unit Class 9 vehicles have been considered for U-turn provisions at intersections. This will be shown on the 90% drawings. [3] is post-construction monitoring					
D4 cont'd (b)	Protect provisions for goods movement in corridor (cont'd)			✓		Entire Corridor	Construction may limit access for trucks	Traffic management plan to ensure truck access at all times[1]	May not be possible in some areas	Designate alternative truck routes[2]	Negligible	None required	York Region	Status – Ongoing Traffic Management Plans are prepared to ensure pedestrian and vehicle circulation is maintain during construction activities. Business access, including access by trucks, are considered in the preparation of the plans where appropriate.	Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)	Yes	[1,2] EF	Item [1]: Document ID#79 supports that TMP are prepared for vehicle and traffic circulation.
(c)		Truck U-turn Movement Prohibited			✓	Westbound at Kipling Ave. intersection	The effect is not anticipated to be critical because: <ul style="list-style-type: none"> the gas station at the SE corner also has an access on Kipling Ave.; there is no other commercial property on the south side between Kipling Ave. and Islington Ave. 	None required.	None expected.	None required.	Insignificant	Monitor and widen Highway 7 with right turn tapers at side streets to allow for movement, or widen Highway 7 from 4 lanes to 6 lanes.	York Region	Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
(d)					✓	Eastbound at Kipling Ave. intersection	There is a need for trucks to access to the many commercial properties on the north side between Kipling Ave. and Parkfield Cr/ Woodstream Blvd. The next U-turn permitted intersection, i.e. Islington Ave. is approximately 600m away and trucks will have to travel additional 120m to access these north side properties.	Truck U-turn Movement at this intersection cannot be prohibited.	Trucks making U-turn will have to negotiate with the EB through traffic as they will need to move out of the left-turn lane in order to make the U-turn.	Traffic signs required to warn EB through traffic of the truck U-turn movements.	Moderately significant	Monitor the truck u-turn operation to confirm if this operation will impede EB through traffic operation severely. Widen Highway 7 with right turn tapers at side streets to allow for movement, or widen Highway 7 from 4 lanes to 6 lanes.		Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2016)	
(e)					✓	Westbound at Bruce St. intersection	The effect is not anticipated to be critical because: <ul style="list-style-type: none"> the commercial property on the SE corner has no access on Highway 7; there is no other commercial properties on the south side between Bruce St. and Helen St./ Wigwoss Dr.; and the next U-turn permitted intersection is only approximately 400m away at Islington Ave. 	None required.	None expected.	None required.	Insignificant	Monitor and widen Highway 7 with right turn tapers at side streets to allow for movement, or widen Highway 7 from 4 lanes to 6 lanes.[1]	York Region	Status – Ongoing The traffic analysis is underway and will be provided in the final Traffic Analysis Report. The initial detailed design findings do not propose an exclusive WBR turn lane at Bruce Street intersection due to the low amount of traffic in and out of the one lane private driveway. BRT lanes at this intersection have been removed to avoid property conflicts.		Yes	[1] AC	Item [1]: Accepted that this item is ongoing.
D4 cont'd (f)	Protect provisions for goods movement in corridor (cont'd)	Truck U-turn Movement Prohibited (cont'd)			✓	Westbound at Swansea Rd. intersection	The effect is not anticipated to be critical because: <ul style="list-style-type: none"> the commercial 	None required.	None expected.	None required.	Insignificant	Monitor and widen Highway 7 with right turn tapers at side streets to allow for	York Region	Status – Does not apply to H2-West or H2-East segments		No	Closed (2015)	

Appendix 1 Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA – Table 10.4-4 Effects and Mitigation for Mobility											Compliance Monitoring			Compliance Review (MMM)				
GOAL	Environmental Value / Criterion	Environmental Issues / Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation Measures			Level of Significance after Mitigation	Monitoring and Recommendation	Responsible Person / agency	Status of Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			P	C	O			Built-In Positive Attributes and/or Mitigations	Potential Residual Effects	Further Mitigation								
OBJECTIVE D: To promote smart growth and economic development in the corridor																		
							property opposite Bullock Dr. can be accessed at the signalized Bullock intersection; <ul style="list-style-type: none"> there is no other commercial properties on the south side between Swansea Rd. and Bullock Dr.; and the next U-turn permitted intersection is only approximately 450m away at Kennedy Rd. 					movement, or widen Highway 7 from 4 lanes to 6 lanes.						

Notes: P – Pre construction, C – Construction, O – Operation

Appendix 2 Action for comments received from the <u>Government Review Team</u> on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
Ministry of the Environment – Technical Support	Mr. Ernie Hartt, Supervisor – Air, Pesticides, and Environmental Planning Central Region	1	a) Section 8.3.2 – In this section, Alternative B1 is identified as preferred, noting that this alternative will attract the highest ridership on east-west Hwy 7 service contradicting the evaluation findings in Table 8.3-1 which indicate that this alternative “circuitous route to York U for trips from the east reduces Hwy 7 service daily boardings by 7-10%. Clarification should be obtained to ensure that the increased capital costs and increased potential for environmental impacts associated with the selection of Alternative B1 are justified based on the broader goals and objectives of this undertaking.	a) Section 8.3.2.4 of the EA report indicates that the preferred alternative is a combination of Alternative B1 and continuation of the partially-segregated Phase 1 Keele St service. This combination has the highest potential to attract ridership to both major destinations, Vaughan Corporate Centre (VCC) and York University, thus overcoming the primary disadvantage of Alternative B1 alone while gaining some of the benefits of Alternative B2.	York Region	a) Status - No action required		Yes	Closed (2015)	
			b) Section 8.3.4.2 – The alternative alignments under consideration were evaluated using an analysis of the advantages and disadvantages of the various options (Table 8.3-4). This approach is not consistent with the approach used for the evaluation of other segments which consider a broader range of environmental features (Tables 8.3-3 and 8.3-5). As the EA is seeking two alternative alignments in this section, an evaluation method as included under Tables 8.3-3 and 8.3-5 is recommended as it includes a broader discussion of environmental impacts that is included in the advantages/disadvantages table. The general comments provided in Chapter 10 of the EA are not sufficient, as they do not specifically discuss the Hwy 404 area under Goal C2, natural environment.	b) The alternative methods of crossing the Hwy 404 interchange were not considered a comparison of alignments within a segment of the route but an evaluation of the advantages and disadvantages of local design solutions to achieve a segregated right-of-way through the existing interchange. As noted in Section 8.3.4.2 of the EA report, the preferred initial strategy (option C-B1) is to avoid environmental impacts and significant capital costs by operating the rapid transit in mixed traffic through the existing underpass on Hwy 7, basically a “do nothing” approach between the inner traffic signals at the interchange.		b) Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
			c) Section 8.3.4.2 – Figure 8.3-13 identifies three local alignment options for alternative C-B2, which is the alternative for which approval is also being sought (as a contingency if the preferred alternative, C-B1, cannot provide the necessary level of service). Recognizing that this may be a highly urban area, the lack of an evaluation table does not allow us to determine if there are any natural features which could be impacted by the selection of one alignment over another. It is recommended that the Region identify the preferred alignment that this EA will be seeking approval for and discuss any potential environmental impacts.	c) The EA is seeking approval of Option C-B2, as an ultimate solution for phased implementation if Option C-B1 becomes unreliable. This option will focus on maintaining the transitway within the Hwy 7 right-of-way by modifying the lane arrangements or span of the existing Hwy 404 underpass as the preferred design solution. A table assessing the potential effects of the variations of alternative C-B2 is included as supplementary information.		c) Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
		1	d) Section 8.3.5.2 – The text in this section indicates that	d) The highlighting in Table 8.3.6 of the EA report was		d) Status – Does not apply to H2-		Yes	Closed	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
		cont'd	the "civic mall easement" is the preferred route alignment for this segment, while the accompanying table (Table 8.3-6) highlights the "Enterprise Drive Option" as being preferred over the "Civic Corridor Option". Clarification is recommended.	inadvertently placed in the incorrect column. As stated in the text, the Civic Mall easement is the preferred option.		West or H2-East segments			(2015)	
			e) Section 12.5 – Central Region has received information from the TTC indicating the preferred alignment for the Spadina Subway Extension has been selected as the diagonal alignment at Steeles Ave. The result of the selection of this alignment is that the future works for the station at Hwy 407 would be located to the north of the future Hwy 407 rapid transit r.o.w. and would be constructed under the Hwy 407 ramps without directly impacting the Black Creek meander belt, reducing potential impacts to the watercourse. This section identifies that York Region is proposing to prepare an addendum upon final approval of TTC's EA to consider the extent of potential environmental impacts, including those on Black Creek, for the alignment recommended by the TTC. As indicated in Table 12.6-3, this amendment will include a detailed analysis of both subway tunnel and station construction methods and associated mitigation measures for the section from Hwy 407 to Steeles Ave. Central Region recommends this type of analysis be undertaken in the EA amendment for the entire subway length from Hwy 7 to Steeles Ave to ensure a consistent level of environmental impact assessment for the entire subway component of this undertaking.	e) The EA amendment will assess the effects of subway construction and operation of any components developed in more detail than in this EA between Hwy 407 and the limit of the TTC EA undertaking at Steeles Ave.		e) Status – No Action Required This action relates to the Spadina Subway Extension, which is the subject of a separate CMP.		Yes	Closed (2015)	
			<i>Mitigation and Monitoring</i> f) With respect to environmental commitments and monitoring, the revision to Chapter 12 provides a more substantial level of detail than provided for in the draft EA document, and this information will provide greater direction to the Region in the development of the Monitoring Program. APEP is encouraged by the outline of construction and operations monitoring and the commitment to establish an independent Environmental Compliance Manager.	f) Comment noted (refer to Section 11.3 of the EA report for Environmental Commitments and Section 11.4 for Monitoring).		f) Status – No Action Required		Yes	Closed (2015)	
		1 cont'd	g) It is important to note that these commitments should be identified as minimum monitoring requirements, and that monitoring of additional environmental elements	g) Comment noted for consideration during development of the detailed Monitoring Program as noted in Section 11.4.1 of the EA report.		g) Status – No Action Required		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			may be included in the Monitoring Program if further environmental impacts are identified. APEP encourages the Region to prepare an Annual Monitoring Program Report, outlining the results of the Monitoring Program and how any environmental impacts experienced have been addressed.							
Ministry of the Environment – Air Quality	Mr. Ernie Hartt, Supervisor – Air, Pesticides and Environmental Planning Central Region	2	To a large degree, the comments are intended to reflect how effectively York Region and Senes have revised the EA report and Air Quality (AQ) appendix in line with Technical Support's July 29/05 comments that were provided to the Region with respect to the draft EA report. Technical Support (TS) continues to have some outstanding concerns with the August 2005 documents that require further attention with particular regard to: the incorporation of the Senes AQ Impact Assessment into the EA report with respect to "Future" cases, and the approach taken by Senes in their AQ Impact Assessment.[1-2]		York Region	Status – completed An updated Air Quality Impact Assessment Report for a Study Area Bounded by Hwy50 to York Durham Line was completed in April 2011 using the CAL3QHCR dispersion model as required in the terms and conditions for the Hwy 7 Corridor & Vaughan North-South Assessment Compliance Monitoring Program (CMP). The purpose of the Study was to assess the cumulative air quality effects that may arise due to the proposed Bus Rapid Transit (BRT) undertaking. [1] The MOE accepted the air quality assessment report on June 17, 2011 and is satisfied that Condition 5.4 of the EA Notice of Approval has been Addressed. [2]	Final Air Quality Report (2011-04-29) (ID#7270)[1] MOE Letter of Acceptance, June 17, 2011 (ID#7713)[2]	Yes	Closed (2015)	
		2 cont'd	<i>Lack of Detail in EA Report on AQ Impacts of the Project (Future Cases)</i> a) The details on the AQ impacts relating to the "Future Base Case" and the "Future BRT Case" have not been included in the body of the EA report in support of the brief summary statements made in Table 10.4-3 of the EA report. This approach is not considered appropriate by TS. It has consistently been TS's position that any evaluation of AQ impacts of a project such as this EA report should constitute the primary focus of the EA report as it relates to AQ. In the EA report, the Region continues to make the discussion of existing conditions	a) The results of the AQ assessment are summarized in Chapter 10 (Table 10.4-3) of the EA report consistent with the summary of other potential environmental effects. The EA document references Appendix L which provides the detailed AQ assessment. The Proponent does not believe that a revision to the EA document is warranted.		a) Status - No Action Required. See above		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			the primary focus (Section 6.6.1) and has relied solely on referring the reader to the Senes AQ Impact Assessment when it comes to the Future Cases. This definitely detracts from the stand-alone nature of the EA report as a means of supporting decisions on the impact of the project with respect to AQ. It remains TS's position that York Region should further revise the EA report accordingly to resolve this issue.							
			<i>Focus of EA Report and Senes Report on Particulate Matter Emissions</i> b) TSP "was not assessed because the larger particles only affect visibility, while the PM ₁₀ has been associated with health impacts". Since TSP is a parameter regulated by the MOE, TS might have wished to see some further discussion of TSP and its role in defining existing AQ, however TS does acknowledge that it is not a health based parameter and agree to its being excluded from further discussion.	b) Comment noted.		b) Status - No Action Required		Yes	Closed (2015)	
			c) PM _{2.5} is included in the "Existing Conditions" discussion and has been discretely inserted into the text/discussions of the "Existing Base case", "Future base Case" and "Future BRT Case". However, overall PM emissions as discussed in the August 2005 AQ Impact Assessment continue to focus on PM ₁₀ as is demonstrated by Tables 3.2, 3.3 and 3.4 as well as Table 5.1 and 5.2, none of which have been revised to include PM _{2.5} . Figures 5.1 and 5.6 also focus on PM ₁₀ . TS feels that the adjustments made by York Region and Senes to include PM _{2.5} are inadequate and continues to recommend that PM _{2.5} be fully incorporated into all aspects of the AQ Impact Assessment.	c) As noted in the Senes AQ Impact Assessment, there is little information about PM _{2.5} emissions from vehicles and roadways, and therefore the ratio method of PM ₁₀ to PM _{2.5} was used in order to calculate the values for PM _{2.5} . Note in the Terms of Reference it says that respirable particulate matter (PM _{2.5}) will also be assessed in comparison with the proposed Canada Wide Std of 30 ug/m ³ .		c) Status – Complete Refer to items 16 & 17 of this document.		Yes	Closed (2015)	
			<i>Comparison of Existing AQ Data with MOE AAQC Values</i> d) Overall, some inaccuracies remain in the MOE AAQC's which have been included in the assessment of historical and measured data that appears in Section 6.6.1.3 of the EA report and in Section 2.3 of the Senes AQ report. However, TS does not require further clarification of these inaccuracies.	d) Comment noted.		d) Status - No Action Required		Yes	Closed (2015)	
		2 cont'd	e) TS acknowledges that Senes has reviewed the historical and monitored data bases in some detail and	e) Comment noted.		e) Status - No Action Required		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
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			found them to be accurate and not in need of further adjustments or changes.							
			f) TS is in agreement with the comments in the preamble to Tables 6.6-6 and 6.6-7 of the EA report and Tables 2.6 and 2.8 of the Senes report that reflect PM as being the most significant parameter of concern with respect to both historical data and measured ambient monitoring data.	f) Comment noted.		f) Status - No Action Required		Yes	Closed (2015)	
			The concerns identified with respect to PM (ie. PM ₁₀ and PM _{2.5}) are to be dealt with in comments which follow in terms of dispersion modeling and mitigation.					Yes	Closed (2015)	
			<i>Development of Vehicle Emissions Data</i> TS acknowledges that their concerns identified in the Vehicle Emissions data/discussion have been reviewed by York Region and dealt with satisfactorily. TS is in agreement that no further action is required on these concerns at this time.	g) Comment noted.		g) Status - No Action Required		Yes	Closed (2015)	
			<i>Dispersion Modeling/Assessment of Air Quality</i> h) TS still has some concerns with respect to the representation of the project measurement/monitoring locations and the accuracy of the measurement/monitoring data collected during the somewhat limited program. TS however do not feel such concerns are significant and acknowledge that they will not change the overall conclusions of the AQ Impact Assessment.	h) Comment noted.		h) Status - No Action Required		Yes	Closed (2015)	
			<i>Matching of Alternatives Assessed in EA Report with Those Screened in the Senes Report</i> i) The July 2004 Senes Report and the draft EA report did not clearly match-up in terms of the evaluation of alternatives noted in Section 8 of the EA report and the preliminary screening of alternatives dealt with in Section 3 of the Senes Report. To clarify this issue Senes removed Section 3 from their report. In order to clear up this matter, TS requests that York Region confirm that Senes' approach on screening with respect to AQ did not provide any different result on selection of the preferred alternative from that shown in Section 8 of the final EA report.	i) The assessment of the effects of route segment alternatives on air quality, while a factor in the evaluation of natural environmental effects, did not provide any different result in the selection of the preferred alternatives from that shown in Section 8 of the EA report.		i) Status - No Action Required		Yes	Closed (2015)	
		2 cont'd	<i>Identification of Mitigation Measures</i> j) Section 9.1.1 of the EA report contains a statement	j) A conceptual streetscape plan is identified in Section		j) Status – Ongoing Preparation of 90%		Yes	[1] AC	Item [1]: Accept that the Streetscape Plans is currently underway and

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			noting the intent to plant trees as part of the landscaping plan and that “trees also act as a solid body for air pollutants to settle on and therefore reduce negative effects in the atmosphere”. TS would identify such efforts as tree planting as a factor in such mitigation and requests that they be considered by York Region and the appropriate revisions reflected in Table 10.4-3.	9.1.1 of the EA report. A detailed streetscape plan will be developed during detailed design. It is acknowledged that tree planting provides an additional built-in positive effect on air quality. Tree planting will be considered further in the development in the detailed streetscape plan.		Streetscape Plans is currently underway and incorporates street tree planting.				incorporates street tree planting.
			k) Before any specific comment can be made on the implication of the landscaping plan, it is necessary to look at the AQ related statements in Table 10.4-3. The statement as noted under Proposed Mitigation Measures – Potential Residual Effects, suggests a 3.6% (it actually appears to be 1.6%) improvements (or decrease) in PM ₁₀ concentrations “when comparing 2021 (future) forecasts with (“Future BRT Case”) and without (“Future Base Case”) proposed rapid transit. The major difficulty that TS has with the conclusion on future PM ₁₀ concentrations (as noted above) is that it does not include consideration of Table 3.2, the existing base case pollutant concentration estimates. It is TS’s opinion to include consideration of the fact that PM ₁₀ emissions will increase markedly from the existing base case to the future base case. As a result there will be a 38% increase in PM ₁₀ initially and it will decrease 1.6% with inclusion of BRT. For York Region to then conclude that the focus should be only on 2021 is misleading and not something we can easily agree to. At the very least TS feels that this change over the period 2001 to 2021 could be characterized in terms of BRT “slowing” the increase but it should in TS’s opinion include consideration of “Further Mitigation” based on significant initial increase in PM ₁₀ concentrations.	k) The increase in PM (2001-2021) without the project is due solely to an increase in traffic volume. Without a change in the public’s attitude toward the use of single-occupancy vehicles this increase is unavoidable. The introduction of the BRT system will slow this increase. The EA report’s presentation of effects in 2021 is a true reflection of the conditions with and without the undertaking operating as a mature alternative transportation mode. The purpose of this undertaking is to provide an efficient alternative travel mode with the potential to reduce the growth in private automobile use and the consequent traffic volumes generated. Further mitigation to address the natural growth in trip-making in the Region’s major corridors is beyond the scope of this EA.		k) Status – Complete Refer to items 16 & 17 of this document.		Yes	Closed (2015)	
		2 cont'd	l) The reference for the statement in k above is data noted as being available in Tables 4.3 and 4.4 of the Senes Report, when in fact it should be Tables 3.3 and 3.4.	l) Comment noted. Table 10.4-3 of the EA report should refer to Tables 3.3 and 3.4 of the Senes AQ report, and not Tables 4.3 and 4.4.		l) Status - No Action Required		Yes	Closed (2015)	
			m) In light of comments b and c, it is TS’s opinion that the issue of PM _{2.5} concentrations also needs further review and as such, Table 10.4-3 should be modified to include consideration of PM _{2.5} as well as PM ₁₀ .	m) There will be a net positive effect to the environment from PM _{2.5} and PM ₁₀ , therefore no further mitigation is required.		m) Status – Complete Refer to items 16 & 17 of this document.		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			<i>Monitoring of Construction PM Emissions</i> n) Table 10.4-3 of the EA report includes comments on "Degradation of air quality during construction: which indicates that "some PM emissions locally" are expected but no "Monitoring" is recommended. This information raises some concern with TS about its compatibility with information provided in Section 11.4.1 of the EA report, which does indicate that "Monitoring" will be done in the form of regular inspections of dust and vehicular emissions control. Table 11.4-1 of the EA report does provide some qualitative comment on "Monitoring" associated with "effect of construction activities on air quality (dust, odour)." TS strongly in favour of the need to do such monitoring and requests that York Region clarify what appears to be contrary statements in table 10.4-3 that no "Monitoring" is recommended.	n) Table 10.4-3 of the EA report was intended to indicate that no specific monitoring program beyond that normally required by the construction contract conditions is recommended. The Region will enforce the requirements of the standard contract conditions as described in Section 11.4.1 of the EA report.		n) Status - No Action Required		Yes	Closed (2015)	
			<i>Senes Project Description</i> o) The content of Section 1.1 of the Senes report has been reasonably clarified with the addition of explanatory paragraph.	o) Comment noted.		o) Status - No Action Required		Yes	Closed (2015)	
			<i>Executive Summaries</i> p) Both the EA report and the Senes report executive summaries need further review in order to substantiate that they are compatible with changes to the bodies of the reports as may occur in terms of addressing the comments provided by TS and noted in the memo.	p) There are no changes proposed to the main EA report to address comments provided by TS. Clarification will be provided as appropriate.		p) Status - No Action Required		Yes	Closed (2015)	
			<i>Overall Assessment of Air Quality</i> q) The Overall Assessment as noted in Section 8 of the Senes report and quoted in the EA report needs further review in order to substantiate that they are compatible with changes to the bodies of the reports as may occur in terms of addressing the comments provided by TS and noted in the memo.	q) There are no changes proposed to the main EA report to address comments provided by TS. Clarification will be provided as appropriate.		q) Status - No Action Required		Yes	Closed (2015)	
Ministry of the Environment – Water Resources	Ms. Ellen Schmarje, Supervisor, Water Resources Unit, Central Region – Technical Support Section	3	a) In reference to the definitions of "Insignificant" and "Significant" in Section 10.1: Assessment Methodology, an effect that is temporary or short term in duration may be considered significant as the release of suspended solids to a watercourse can potentially cause a permanent loss of critical or productive aquatic habitat.	a) Comment noted. As described in Section 10.1 of the EA report, the definition of significant effect includes permanent loss of critical or productive aquatic habitat, regardless of the duration of the original net effect that precipitates the permanent effect.	York Region	a) Status - No Action Required		Yes	Closed (2015)	

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Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			b) The Proponent should note that Section 53 (OWRA) approvals from the MOE will be required for the new and expanded storm sewers and end-of-pipe stormwater management facilities prior to the construction phase (Section 11.2: Project Implementation Plan).	b) Comment noted and will be carried forward for consideration during detailed design. Section 11.2.1 of the EA report identifies examples of other approvals that may be required during the detailed design phase, but is not intended as a complete list of all post EA approvals that will be required.		b) Status - Ongoing Application to MOECC (via Transfer of Review process with York Region) for Environmental Compliance Approval will be pursued. This application will follow approval of designs by TRCA. All necessary permits and approvals will be obtained prior to corresponding construction activities where required. Permits and approvals required for the Project have been identified and are being tracked monthly.	Email to EDCO, summarizing June 21 conversation with Eva Pulnicki (YR)-June 22, 2016 (ID#69) vivaNext H2 BRT Expansion - H2 West, H2 East Project Approvals Matrix - June 3, 2015 (ID#87)	Yes	[1]ECF	Item [1]: The documents provided support ongoing obtaining of appropriate permits (ECA no longer CofA)
			c) A permit to take water must be obtained for all dewatering activities in excess of 50,000 L/day. The permit must be obtained prior to the commencement of any construction related activities requiring groundwater dewatering (Section 11.2: Project Implementation Plan)	c) Comment noted and will be considered during both the preparation of the EA amendment for the southern portion and during detailed design of the entire undertaking.		c) Status – Complete Under new regulatory changes in early 2016 (O.Reg. 63/16), an Environmental Activity and Sector Registry registration has been obtained for the Project. There are no dewatering activities which are anticipated to exceed the EASR threshold of 400,000 L/day.	Email from Sophia Sestito (EDCO), Confirmation of EASR registration from MOECC - August 11, 2016 (ID#70)	Yes	Closed (2016)	Item [1]: The documents provided support assertion. This item is closed.
			d) Table 11.3 indicates that “in the event a shallow or upward groundwater movement becomes an issue due to construction of the subway during the detailed design stage, TRCA’s hydrogeologist will be consulted.” It is important to note, that any groundwater issues (including dewatering or water quality issues) related to the proposed undertaking must be dealt directly with the MOE, which may consult with TRCA if necessary.	d) Comment noted. The MOE and TRCA will be consulted accordingly during detailed design.		Status – Does not apply to H2 West or H2-East segments		Yes	Closed	
			e) No major outstanding surface water or groundwater issues were identified regarding the preferred alternative. Additional input during the detailed design	e) Comment noted. The MOE will be consulted during development of the detailed Monitoring Program as appropriate.[1]		e) Status – Ongoing Development of a Storm Water	Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes	EF[1]	Item [1] document ID#19 supports that the Storm Water Management Plan (SWMP) is underway. However,

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			phase may be required to ensure that monitoring, mitigation and contingency plans adequately assess any adverse impacts to the natural environment and/or sufficiently protect the natural environment.			Management Plan (SWMP) is underway and is being prepared in accordance with the MOE's Stormwater Management Planning and Design Manual (2003) and Guidelines for Evaluating Construction Activities Impacting on Water Resources. The preliminary SWMP is provided in the Drainage Design Report. Stormwater management has been discussed with the TRCA during detailed design at the meetings held on October 13, 2016, December 1, 2015 and July 5, 2016.	Minutes of Meeting: EDCO, TRCA, YR, MMM and EJV – Meeting No. 1 – October 13, 2015 (ID#50) Minutes of Meeting: EJV, Bell, EDCO, MMM, TRCA and YR – Meeting No. 2 – December 1, 2015 (ID#51) Minutes of Meeting: EDCO, EJV, TRCA and YR - Meeting for Culvert C1 No. 4 - July 5, 2016 (ID#49)			consultation with TRCA is not consultation with MOECC. ACTION: Ensure evidence is provided in future ACRs regarding MOECC consultation.
Ministry of the Environment – Air and Noise Unit	Mr. Denton Miller	4	Noise a) With respect to Section 5 of Appendix K, there were several errors noted in the assessment of the 2021 baseline, BRT and LRT noise calculations. Some of the errors cancelled other errors and it is unlikely that the actual impact will change the overall conclusions drawn in Appendix K. Nonetheless the errors should be corrected.	Please refer to the attached Noise and Vibration Supplementary Information package for revised tables and appendices to Appendix K – Noise and Vibration Impact Assessment, of the EA report. a) Refer to responses below. As shown in the revised data attached, the conclusions drawn in the original report are still valid.	York Region	a) Status - No Action Required		Yes	Closed (2015)	
			Surface Type Used in Stamson Calculations b) The majority of the calculations in Appendix K are based on absorptive ground surfaces. Based on drawings submitted with the proposal, it is the Air and Noise Unit's opinion that ground absorption was used incorrectly in the assessment of the roadway. The Proponent should revise the subject calculations accordingly or clarify why this approach was used.	b) In all cases where noise monitoring was conducted (receptors) the intermediate surface was covered by grass and therefore it was determined that an absorptive designation was appropriate. ORNAMENT Technical Document (MOE 1989), states that "Soft ground surfaces such as ploughed fields, or ground covered with grass, shrubs, or other forms of vegetation are considered to be sound absorptive". This is also reflected in the monitoring results. The predicted sound levels for existing conditions (2002) (section 4.0 in Appendix K) closely resemble the measured sound levels. To be consistent in the modeling approach, the absorptive surface was also used in the prediction of noise level for future cases. However, in light of the above comment b, the noise		b) Status - No Action Required		Yes	Closed (2015)	

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				modeling was revised using a reflective ground surface. The predicted sound levels were found to be still within the range of the measured results in most instances. Therefore, all scenarios have been revised using a reflective ground surface and are attached for review.						
			<i>Daytime and Nighttime Receiver Heights Used in Stamson Calculations</i> c) The receiver heights used in the assessment of the receptors are not consistent with Section 5.5.4 of the MOE's publication ornament where it is stated that for the purposes of assessing the noise impact on single family dwellings and townhouse units, the following receiver heights are used: 1.5 m for defining the outdoor living area, and 4.5 m for defining a 2 nd storey window. The proponent should revise the subject calculations accordingly or clarify why this approach is used.	c) The purpose of Section 4.3 in Appendix K is to compare the predicted sound level (from traffic) with the existing sound levels using noise monitoring data collected at specific receptors along the route. For this purpose only, the actual height of the microphone of the noise monitoring equipment was used for a direct comparison with the traffic passby at each specific receptor location. However, for predicting future noise impact the noise modeling was carried out using 1.5 m for outdoor living area and 4.5 m for 2 nd story window.		c) Status - No Action Required		Yes	Closed (2015)	
		4 cont'd	<i>Nighttime Receiver Source Distances Used in Stamson Calculations</i> d) When homes are backing onto the subject roadway, the daytime source receiver distance should not be equal to the nighttime source receiver distance. The daytime distances should address the sound levels in the outdoor living area (backyard), and the nighttime distance should address the sound levels at the plane of a bedroom window. In the majority of cases the two distances should differ by 3m. This was not the case in the assessments in Appendix K. The Proponent should revise the subject calculations accordingly or clarify why this approach was used.	d) The shorter of the two horizontal distances was conservatively used for both daytime and nighttime. In any case, the 3 m difference does not result in a significant/noticeable difference in the predicted sound levels. However, the nighttime receptor distances used in the revised model have been changed to reflect the 3 m difference. Refer to the attached STAMSON sheets.		d) Status - No Action Required		Yes	Closed (2015)	
			<i>Percent Traffic Split of Provincial Roadways that should be used in Stamson Calculations</i> e) The recommended day-night traffic volume ratios are 85%-15% for provincial roads. Hwy 7 is a provincial roadway. Clarification is required as to why the appropriate traffic split was not used in the assessment or the calculations should be adjusted accordingly.	e) The 90%-10% day-night traffic volume ratio used in the modeling was derived from traffic count data and adopted as an appropriate representation of conditions on Highway 7 in the study area.		e) Status - No Action Required		Yes	Closed (2015)	
			<i>Designation of Buses in Stamson Calculations</i> f) As noted in the MOE's publication ornament, buses are considered to be medium trucks, hence the percentage	f) The added bus transit traffic was treated as an RT/Custom source for the STAMSON modeling, that		f) Status - No Action Required		Yes	Closed (2015)	

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			of medium trucks should not be the same in Appendices K-D (Predicted 2021 Baseline Traffic Noise Levels) and K-E (Sound Levels Due to Added Bus Transit Traffic). The Proponent should revise the subject calculations accordingly or clarify why this approach was used.	is, a separate source from the regular traffic. Also, the traffic volume of bus transit was not included in the AADT volume for the regular traffic. Hence the percentage of medium trucks is indeed the same in Appendices K-D and K-E. The actual noise level for the bus transit was provided by the manufacturer.						
			<i>AADT Inconsistencies</i> g) Section 5.2 of Appendix K (Scenario 2 – Bus Transit Option), states that “Scenario 2 predicts the sound levels on the same road segments for the same year (2021), but with the added influence of the bus transit traffic”. However the AADT in Appendix K-E (54,144; Sound Levels Due to Added Bus Transit Traffic) is lower than the AADT in Appendix K-D (54,528; Predicted 2021 Baseline Traffic Noise Levels). The proponent should revise the subject calculations accordingly or clarify why this approach was used.	g) The data used were generated by the travel demand modeling with the model calibrated against York Region’s most recent AADT counts for Highway 7. The AADT figure for the “with BRT” scenario represents general traffic only and does not include the BRT vehicles themselves. The modeling project a minor reduction in auto vehicle use after BRT implementation however the overall person-capacity of the roadway is increased by the carrying capacity of the BRT service.		g) Status - No Action Required		Yes	Closed (2015)	
		4 cont'd	<i>Distances in Stamson Calculations</i> h) Some of the distances in the assessment of the proposal are not correct. For example, the distance to the centre of the eastbound segment of the roadway is 28.6 m. This is clearly not correct when assessed against Figure 9.7 of the EA report. The proponent should revise the subject calculations accordingly or clarify why this approach was used.	h) The distances have been revised to reflect those shown in the figures in Chapter 9 of the EA report. Refer to the attached STAMSON sheets.		h) Status - No Action Required		Yes	Closed (2015)	
			<i>LRT Assessment</i> i) The above concerns are for the most part also applicable to the assessment of the proposed LRT. The Proponent should revise the subject calculations accordingly or clarify why this approach was used.	i) The distances have been revised to reflect those shown in the figures in Chapter 9 of the EA report. Refer to the attached STAMSON sheets.		i) Status - No Action Required		Yes	Closed (2015)	
			<i>Preferred Assessment Methodology</i> j) The preferred assessment would see the dedicated bus lanes and the LRT, defined as separate segments in Stamson. This approach would simplify the Proponent’s assessment and our review of the undertaking.	j) The recommended assessment methodology as suggested by the MOE was used in the study submitted. The bus transit and LRT were treated as a separate segment in the Stamson modeling. Please refer to Appendix K-E and Appendix K-F.		j) Status - No Action Required		Yes	Closed (2015)	
			<i>Vibration Reference Vibration Value</i> k) Confirm that the reference value for the vibration calculations in Section 6.1 of Appendix K is 1 micro-	k) This issue had been previously responded to and discussed with Mr. Denton Miller of the MOE Noise		k) Status - No Action Required		Yes	Closed (2015)	

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			metre per second. If correct, please provide a detailed sample calculation of the results noted in Table 6.1. If incorrect please comment on the use of an appropriate reference value and the impact it will have on the calculations and the subsequent conclusions.	Unit in June 2005. Please see the revised Table 6.1 attached.						
Ministry of the Environment	Ms. Gemma Connolly, Special Project Officer	5	<i>CEAA Approval</i> a) Page 1-1 identifies that approval under the Canadian Environmental Assessment Act is being sought through an integral parallel process. No federal trigger was identified by CEAA through their review of the provincial EA. Therefore, EAAB is unaware of any coordinated and/or concurrent federal approval process.	a) Given that federal funding has not yet been approved it is anticipated that the only likely trigger will be the DFO's approval of the major river crossings. The Region expects that this local approval will be obtained through DFO's delegation of authority to the TRCA.	York Region	a) Status – Ongoing DFO review is no longer delegated to TRCA. DFO Self-Assessment was carried out for Crossings C1, C7, and C4 (Highway 400 area). No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. The Self-Assessment determined that a DFO Project Review would be required based on various criteria including channel modifications and changes to footprint below high water mark. Preparation of Project Review documentation for submission to DFO is underway.	DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) (ID#64)	Yes	[1] ECF	Item [1]: Document provided supports the assertion.
		5 cont'd	<i>Chapter 8 Evaluation Local Alignment Options</i> b) It is difficult to follow the evaluation methodology used to select the preferred local alignment options. This analysis is identified in Tables 8.3.-3 to 8.3-7.	b) Generally, where applicable, these options were evaluated using the major objectives adopted for the primary route alternatives analysis. In some cases, such as the Markham Centre/Enterprise Dr area, more specific local factors were used to compare options.		b) Status - No Action Required		Yes	Closed (2015)	
			c) Table 8.3-5 identifies Option C3-4 as the preferred option and Option C3-3 as the next preferred. It is unclear how these options were ranked and evaluated.	c) The table presents the basis for the evaluation of the options by listing the key attributes or effects of each option in terms of the goals and primary objectives adopted for evaluation of the larger route segments along the corridor. Each option's performance against the goals was assessed by evaluating the individual attributes/effects to identify the preferred option in terms of each of the five main objectives. Options C3-3 and C3-4 were selected from this initial screening. The relative merits of these two options were discussed in the text supporting the evaluation table in Section 8.1.5.1. This comparison indicates that Option C3-4 is		c) Status – Does not apply to H2 West or H2-East segments		Yes	Closed (2015)	

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				cost-effective and would provide the most convenient access to rapid transit for several trip types and destinations. At the same time the design of the new Rouge crossing to meet TRCA requirements will mitigate adverse effects on the natural environment.						
			d) Table 8.3-6 highlights Enterprise Dr as the preferred option, while the text identifies Civic Corridor as the preferred option. Qualitative rankings are provided in Table 8.3-6 indicating fair, good but no rationale is provided on what this means in the weighing of the criteria.	d) In Table 8.3-6, the Enterprise Drive option was inadvertently highlighted as the "Technically Preferred Option". The qualitative rankings shown against each indicator were assessed collectively with implicit weighting and found to support the conclusion in the text that the Civic Mall Option best met the objectives for improved transit service through the planned Markham Centre.		d) Status – Does not apply to H2 West or H2-East segments		Yes	Closed (2015)	
		5 cont'd	e) Table 8.3-7 provides check marks with no rationale on what these mean. Please provide further clarification on how these local alignment options were assessed and evaluated.	e) Each check mark in Table 8.3-7 indicates the alignment alternative (Option C-C1 or C-C2) that is preferred in terms of the individual planning criteria noted in the table. For some criteria, both options were considered to be equally responsive and thus both were checked. Again, these responses were assessed collectively leading to the recommendation of the northern alignment stated in the text.		e) Status - No action required		Yes	Closed (2015)	
			f) Section 8.3.4.2 is seeking approval for both C-B1 and C-B2. The preferred option is identified as C-B1. Any proposed changes to the preferred option would be considered an amendment to the undertaking.	f) The alternative methods of crossing the Hwy 404 interchange were not considered a comparison of alignments within a segment of the route but an evaluation of the advantages and disadvantages of local design solutions to achieve a segregated right-of-way through the existing interchange. As noted in Section 8.3.4.2 of the EA report, the preferred strategy (option C-B1) is to avoid environmental impacts and significant capital costs by operating the rapid transit in mixed traffic through the existing underpass on Hwy 7, basically a "do nothing" solution. The Region is seeking approval of Option C-B2, as the preferred ultimate solution for phased implementation if Option C-B1 becomes unreliable. This option will focus on maintaining the transitway within the Hwy 7 right-of-way by modifying the lane arrangements or span of the existing Hwy 404 underpass as the preferred design solution. A supplementary table assessing the potential effects of the three variations of alternative C-B2 is attached.		f) Status – Does not apply to H2 West or H2-East segments.		Yes	Closed (2015)	

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				Option C-B2, grade separated right-of-way, will be the Region's preferred ultimate option if and when required to traverse the Hwy 404 interchange without congestion delays. Option C-B1, operation of the transitway in mixed traffic, will be used until such time congestion problems trigger the need for the grade separation Option C-B2. Improvements to the road system, currently planned by the municipalities will also influence the timing of and need for the ultimate grade separated right-of-way (C-B2).						
		5 cont'd	<i>Intermodal Stations</i> g) The York Region intermodal terminal and Richmond Hill intermodal terminal are discussed as part of the undertaking on page 9-2. These stations are not supposed to be part of this EA approval and should not be described as part of the approved undertaking.	g) Comment noted. These terminals were mentioned as examples of associated facilities in the context of inter-connectivity with other modes.		g) Status - No Action Required		Yes	Closed (2015)	
			<i>Missing Information</i> h) Please provide the missing information in Table 10.4-2 on page 10-9.	h) A completed page 10-9 of Table 10.4-2 from the EA report is provided as supplementary information.		h) Status - No Action Required		Yes	Closed (2015)	
			<i>Effects and Mitigation</i> i) On Table 10.4-2 some issues are evaluated as "Significant" after mitigation, yet monitoring is not recommended. Could you please justify why monitoring will not occur?	i) The issues identified as significant after mitigation are those concerning intersection levels of service analyzed as near or at capacity. The anticipated traffic volumes with or without the undertaking are such that monitoring will not lead to any further mitigation options.		i) Closed (see below) Refer to Table 10.4-2 in Appendix 1 above for individual comments. Items to be reported via Items B1(a) to B6 (l) in Table 10.4-2 of Appendix 1.		Yes	Closed (2015)	
			<i>Vaughan North-South Link Ultimate Conversion to Subway Technology</i> j) Page 6 of the terms of reference allowed the Region to assess the environmental effects of a subway extension between the VCC to York University. This assessment was contingent upon the Spadina Subway being extended from Downsview Station to York U in the City of Toronto.	Refer to the detailed supplementary information provided for the Vaughan North-South Link j) The extension of subway technology from York University to VCC was contingent on the extension from Downsview Station to York University being completed. The Region's EA for the extension into York Region is contingent on approval of the EA for the portion within the City of Toronto.		j) Items j, k & l: Not applicable to H2-West or H2-East segments		Yes	Closed (2015)	
			k) Chapter 12 identifies that the logical northern limit of the Spadina subway extension would be the VCC. As a	k) The Terms of Reference for the City's EA identify the Region-owned land north of Steeles as the northern		Status – No Action Required		Yes	Closed (2015)	

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			result, a major component of the analysis would have built upon the conclusions and recommendations of the City's Spadina Subway Extension EA Study, which is still ongoing. Without the conclusions of the City's study, it is difficult to determine whether or not the protection of Alignment A-1 would be feasible and should be considered as part of this EA approval.	limit of all alignment options to be analyzed in their EA. Only the orientation of the alignment at this limit is not specified. Chapter 12 of the Region's EA describes the rationale for selecting Alignment A-1 to access the VCC and identifies the potential zone where A-1 may have to be modified to link with the range of alignments being considered by the City's EA south of Steeles Ave.. The EA commits the Region to develop and assess the effects of any modification through this zone in an amendment carried out after the City's EA is approved. (Refer to detailed supplementary information)						
		5 cont'd	l) Section 12.5 also defers most of the effects assessment of Alignment A-1 to be done as part of an amendment to the EA. It may be premature to protect a r.o.w. without having the benefits of what types of effects are anticipated to occur. EAAB would like the opportunity to meet with the Region and the City to discuss this component of the EA.	l) Refer to the detailed supplementary information.		Status – No Action Required		Yes	Closed (2015)	
City of Vaughan	Mr. Roy McQuillan, Manager of Corporate Policy	6	Committee Report Recommendations (a through d): a) The MOE be advised that the City of Vaughan supports the approval of the Hwy 7 EA as submitted by the Region of York.	a) Comment noted	York Region	a) Status - No Action Required		Yes	Closed (2015)	
			b) The Region of York be advised that the report entitled "Design Concept for Avenue 7 including Rapid Transit through the Vaughan Corporate Centre" also forms part of the City's comments on the Hwy 7 EA report and that the recommendation contained in that report be implemented as requested.	b) Comment noted and information will be carried forward for consideration during development of a detailed streetscape plan (refer to Section 9.1.1) at the time of detailed design. The Proponent will commit to consult the local municipalities during development of the detailed streetscape plan.		b) Status – does not apply to H2-West or H2-East segments The Vaughan Corporate Centre is not located in the H2-West or H2-East segments. It is in the H2-VMC segment, which is documented in a separate ACR.		Yes	Closed (2015)	
			c) The Region of York be requested to proceed with the amendment to the subway extension component of this EA (Vaughan North-South Link Ultimate Conversion to Subway Technology) at first opportunity, once the TTC Spadina Subway EA is approved, in order to finalize the subway alignment north of Steeles Ave.	c) Detailed comment noted. As noted on Figure 12-4 and described in Section 12.5 of the EA report, the final alignment of the subway from Hwy 407 to Steeles Ave will be determined following completion of the Toronto/TTC EA Study (Spadina Subway Extension from Downsview Station to Steeles Ave).		c) Status – No Action Required		Yes	Closed (2015)	
			d) The Region of York be advised that the City of Vaughan is currently completing a number of land use studies along Hwy 7 and along the Vaughan North-South Link.	d) Detailed comment noted. York Region will work with the local municipalities, including the City of Vaughan during detailed design and development of a detailed		d) Status – does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			It is requested that the Region of York work with the City in refining the transitway and boulevard treatments in response to the land use and design policies that may result from the studies in order to optimize the attractiveness of the urban environment and support the Region's and the City's development objectives; and that such consultation take place during the detailed design phase for the transitway and associated road allowances.	streetscape plan to incorporate recommendations from adjacent land use planning studies where feasible.						
		6 cont'd	<i>The Undertaking – Implications for the City of Vaughan</i> e) The introduction of a rapid transit service will be a major catalyst in the transformation of the current Hwy 7 and Centre and Bathurst Streets from a Provincial highway to an urban arterial road. The City is looking to build on and support this initiative through the Centre St Study and the Hwy 7 Futures Study.	e) Detailed comment noted.		e) Status - No Action Required		Yes	Closed (2015)	
			f) Generally, the impacts were positive or could be mitigated to a minimal level of significance. Given the diversity of the corridor and the form of the transitway, there will be impacts on traffic operations and urban design.	f) Detailed comment noted. As noted in Table 11.4-2 of the EA report, the Region is committed to monitoring traffic operations after implementation of the undertaking. [1] In addition, a detailed traffic management plan will be developed prior to commencing construction (Section 11.2.2.1). [2]		f) Status – [1] Future Work Status – [2] Ongoing [1] This item relates to the operations phase. [2] Traffic Management Plans are prepared prior to commencing works to ensure pedestrian and vehicle circulation is maintained during construction activities.	[2] Memorandum #2016-04: 2016 Summary Memo - Traffic Management Plans and Permits, dated October 4, 2016 (ID#79)	Yes	[1] AC [2] EF	Item [1] Accepted that this relates to the operations phase and is Future Work. Item [2]: Traffic Management Plans are prepared prior to commencing works to ensure
			<i>Urban Design</i> g) The plan shown in the EA for the Corporate Centre does not reflect the City's ultimate preference as illustrated in the report to Committee of the Whole on October 11, 2005. The plan currently shows minimal landscaping. The recommendations contained in this report should reaffirm the City's desire to see the streetscaping/transitway plan revised either by amendment to the EA or at the time of detailed design to reflect the City's ultimate intentions. It is noted that the subway extension portion of the EA deals specifically with this issue by stating that "Transit intermodal facilities will be developed in consultation with Vaughan as part of the introduction of a comprehensive landscaping and streetscaping plan for the VCC and station precinct". These measures will need to be taken into account in the original transitway	g) As described in Section 9.1.1 of the EA report, a conceptual streetscape plan has been developed as part of this EA and will provide the basis for the detailed streetscape design. The Region will commit to working with the local municipalities during detailed design to incorporate streetscape elements recommended through other studies where feasible.		g) Status – does not apply to H2-West or H2-East segments The Vaughan Corporate Centre is not located in the H2-West or H2-East segment. It is in the H2-VMC segment, which is documented in a separate ACR.		Yes	Closed (2015)	

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			design.							
			h) In addition, the plan shows a "VCC Transit Square Concept" at the northwest corner of the intersection of Millway Ave and Hwy 7, which is identified as a transit terminal facility in Section 12 of the EA report. It is recognized that there will be the need for some surface intermodal facilities at a future subway terminal station. However, there is minimal information available on the facility identified in the EA study. It will have to be addressed further with the City in accordance with the statement quoted above, including the basis for the selection of this location.	h) The intention in showing a concept for the surface intermodal facilities is to identify the need for an efficient means of transferring passengers from feeder bus services to the rapid transit service. The concept, while not intended to be a detailed design is representative of the extent of surface facilities and indicative of the opportunities for integration of these facilities into the urban design of the transportation node. It also provides a basis for assessment of any potential effects on the surrounding built or natural environment. The location of the typical concept was based on the recommendations of the draft report on the City of Vaughan's study of streetscaping for the VCC.		h) Status – does not apply to H2-West or H2-East segments The Vaughan Corporate Centre is not located in the H2-West or H2-East segment. It is in the H2-VMC segment, which is documented in a separate ACR.		Yes	Closed (2015)	
		6 cont'd	i) The study acknowledges that there are areas that have insufficient road allowance width to permit significant landscaping. An example is the section of Hwy 7 between Martin Grove and Pine Valley Dr. For such areas, the plan suggests that redevelopment be monitored and that property be acquired through redevelopment. An alternative would be to incorporate sufficient setbacks to allow for landscaping to be provided on the private lands between road allowance and the building.	i) Comment noted. The Region will work with the local municipalities to secure the required r.o.w. and setbacks through the development approval process [1]		i) Status – Ongoing [1] Site Plan Applications and Official Plan Amendments are being monitored.	Site Plan Tracker (ID#60)	Yes	[1] EF	Item [1]: the document provided (ID #60) supports the assertion regarding tracking applications etc.
			j) The City is currently conducting several land use studies in areas that will be directly affected by the transitway. These include the Hwy 7 Futures Study and the Steeles Ave Corridor Study-Jane St to Keele St. Both studies are nearing conclusion. Each will have land use and urban design implications for these areas. In order to optimize the opportunities for aesthetic improvements along Hwy 7 and in the Vaughan North-South Link, the outcomes of these studies should be taken into account during the detailed design of the transitway and the surrounding road allowance. Improving the urban and aesthetic environment will support both the Region's and City's development objectives and improve the chances of their being achieved. A recommendation has been included requesting that the Region work with the City during the detailed design phase for the transitway to take into	j) Comment noted. York Region will work with the local municipalities, including the City of Vaughan, during detailed design [1] and development of a detailed streetscape plan to incorporate recommendations from adjacent land use planning studies where feasible. [2]		j) Status – Ongoing [1] Municipalities are included in circulation of design drawings for review. Comments are incorporated into review process by designer. [2] Streetscape Enhancements are being incorporated for Hwy 7 VMC and Centre Street per the Project Agreement for Design, Build, and Finance.	[1] City of Vaughan Centre St Watermain 100% comments (ID#46) [2] Project Agreement To Design, Build And Finance the vivaNext Bus Rapid Transit Expansion Project (H2-West And H2-East Segments) Schedule 15, Part 2, Section 11.4 (ID#17)	Yes	[1,2] EF	Item [1] Document ID#46 supports the assertion that municipalities are included in circulation of design drawings for review. However, the document is not specific to streetscaping. ACTION: In future ACR, provide documentation applicable to aesthetic improvements and specifically City of Vaughan. Item [2] Document ID17 supports the Streetscape Enhancements are being incorporated

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			account the results of these studies.							
		6 cont'd	<p><i>Road Operations:</i> The introduction of the centre median will have a number of effects, which include:</p> <p>k) A prohibition on left turns in and out from driveways and minor roads due to the transitway – The EA indicates that alternative access can be obtained by way of another site or an adjacent roadway. Users will have to adapt and find alternative routes. The introduction of U-turns at signalized intersections is also provided. The impact of the introduction of U-turns to accommodate left-in and left-out turns – in some instances there might be conflicts between U-turns and right turn movements onto Hwy 7 from side streets when the traffic signal is red. It may be necessary to restrict right turns on red lights from side streets. This should be monitored and measures taken to reduce any potential conflicts. It is noted that some of the intersections with four lane road sections may not permit U-turns by large trucks. Restrictions may have to be imposed where warranted.</p>	k) Detailed comment noted. The Region will consult with the local municipalities during development of the detailed Traffic Management Plan (as described in Section 11.2.2.1 of the EA report).[1]		<p>k) Status – Ongoing The Region will circulate Traffic Management Plans to municipalities and school boards for review. It is noted that there are existing vivaNext projects in both Vaughan and Richmond Hill where the unique operation of the rapidway has been reviewed.</p> <p>A traffic analysis is underway. Each intersection will be analyzed on a case-by-case basis. The results of the analysis will be provided in the final Permanent Conditions Report.</p>	Email – Area Manager for YRDSB and YCDSB, Aug 25, 2016 (ID#33)	Yes	[1] EF	Item [1] Document ID#33 supports the assertion that TMPs are consulted upon. However, the document is not specific to municipalities. ACTION: In future ACR, provide documentation applicable to municipal consultation.
			<p>l) Pedestrian crossings given the additional road width in some areas – Given the introduction of the transitway and the station facilities, there is a substantial increase in the paved portion of the road allowance, especially at major intersections. Some pedestrians may not be able to cross in one signal phase. The transitway will have pedestrian refuge areas built into the design to allow them to wait at mid-crossing. A further alternative would be to have a two-stage crossing system to accommodate heavier traffic. Before proceeding to a two-stage system, monitoring should occur under operating conditions to determine if it is warranted.</p>	l) Detailed comment noted and will be carried forward for consideration of the detailed Traffic Management Plan (Section 11.2.2.1). [1] Traffic Operation Monitoring (noted in Table 11.4-2) will include consideration of effects on pedestrians. [2]		<p>l) Status- [1] Ongoing Status [2] Future Work [1] Median refuge will be provided at various intersections along the alignment to facilitate safe pedestrian crossing (H2E-CIV-PM-106). In addition, a traffic analysis is underway. The intersections with very large pedestrian crossing distance and vivaNext stations will have 2-Stage pedestrian crossing system for safety and better traffic operations. The results of the traffic analysis will be documented in the final Permanent Conditions Report.</p> <p>[2] is future work during the operations phase</p>	1] H2E-CIV-PM-001 to 114 H2E – Pavement Markings and Signage – August 10, 2016 (ID#92)	Yes	[1] EF [2] AC	Item [1]: Document ID#92 (drawing 106) shows example of refuge. Item [2]: Accept that operational monitoring is Future Work
			<p>m) The potential for traffic infiltration in some areas – Traffic infiltration has been identified as a possible problem in certain neighbourhoods, resulting from</p>	m) Detailed comment noted. York Region will work with the municipalities during monitoring of traffic operations after implementation of the transitway to		<p>m) Status – [1] Ongoing Status – [2] Future Work [1] Intersection and driveway</p>		Yes	[1,2] AC	Item [1]: Accept that post-construction monitoring is on-going Item [2]: Accept that operational

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			drivers trying to avoid Hwy 7. This may increase as a result of the constraints introduced by the transitway. The following neighbourhoods may be affected: Monsheen Dr, Willis Rd/Chancellor Dr, New Westminster Dr, and Beverly Glen Blvd. The EA recommends that these neighbourhoods be monitored before [1] and after [2] the implementation of the transitway to determine if additional mitigation measures are required.	address issues/concerns including traffic infiltration.		counts were collected to support development of detailed design and to establish baseline traffic volumes. Traffic count information will be provided in the Permanent Condition Traffic Report. [2] Post-implementation monitoring will be carried out during the operations phase				monitoring is Future Work
		6 cont'd	<i>Vaughan North-South Link Ultimate Conversion to Subway Technology</i> n) The EA study confirmed the alignment selected through the Higher Order Transit Corridor Protection Study, which was incorporated into OPA 529, subject to consideration of the results of TTC's current EA process.	n) Comment noted.		n) Status - No Action Required		Yes	Closed (2015)	
			o) This EA is seeking the approval of this alignment with the option to finalize the portion south of Hwy 407 to tie into the alignment that may ultimately be chosen through the TTC's EA process for the Spadina Subway Extension. No change to the alignment to the north of Hwy 407 is proposed.	o) Comment noted. Refer to Section 12.5 and Figure 12-4 of the EA report.		o) Status - No Action Required		Yes	Closed (2015)	
			p) The recommendations of this portion of the EA study should be supported. Putting in place the EA approvals for a subway extension from Steeles Ave to the Corporate Centre is a welcomed initiative for a number of reasons. It will clearly establish a commitment to the development concepts that are being put forward in City, Regional and Provincial planning documents in the interim it will inform investment decisions by both the public and private sectors; it will allow for the necessary property protection; and the project will be design-ready so that the next steps in the process can take place quickly once financing has been committed.	p) Comment noted.		p) Status - No Action Required		Yes	Closed (2015)	
			q) There is a level of uncertainty surrounding the alignment between Steeles Ave and Hwy 407 as a result of the TTC's Spadina Subway Extension EA. This is unavoidable due to the timing of the two processes. Of primary concern is maintaining the Millway Ave alignment through the Corporate Centre in	q) Comment noted.		q) Status- No Action Required		Yes	Closed (2015)	

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			order to ensure that the Hwy 7 station can be built at its planned location and so property protection and acquisition can continue. The TTC has demonstrated that the three alignment alternatives currently under consideration in the Spadina EA will all work in the context of the City's objectives for the Corporate Centre. All three can provide for the location of an additional station at the planned Hwy 407 Transitway, on the west side of Jane St, south of the highway.							
		6 cont'd	r) In order to overcome this issue, the EA recommends that additional studies take place when the preferred designs for the inter-related facilities have received EA approval. These studies would form the basis for an EA amendment. It is critical that none of the EA processes be slowed. Approval of this portion of the EA on the basis of the planned amendment should be supported. In addition, the Region of York should be requested to initiate the amending report shortly after the approval of the TTC's EA. Failure to proceed expeditiously with the amendment to the EA may be interpreted as a lack of commitment to the project, possibly altering investment decisions and compromising the preservation of r.o.w.	r) Detailed comment noted. As noted on Figure 12-4 and described in Section 12.5 of the EA report, the final alignment of the subway from Hwy 407 to Steeles Ave will be determined following completion of the Toronto/TTC EA Study (Spadina Subway Extension from Downsview Station to Steeles Ave).		r) Status - No Action Required		Yes	Closed (2015)	
			s) The implementation of the YRTP will be a positive step in the evolution of the Region of York and the affected local municipalities. The plan will promote the transformation of southern York Region into a more urban place by shaping the style and intensity of development in the affected corridors, supporting economic development, increasing public mobility and improving environmental quality by offering an alternative to the private automobile. For these reasons the approval of the EA should be supported.	s) Comment noted.		s) Status - No Action Required		Yes	Closed (2015)	
Ontario Secretariat for Aboriginal Affairs (OSAA)	Mr. Richard Saunders, Director Negotiations Branch	7	a) In Section 14.2-Stakeholder Consultation of the EA Report, the Proponent indicates that they have followed OSAA's recommendations as outlined in correspondence dated July 28, 2005. This table indicates the responses and requests for information from the various First Nations contacted by the Proponent.	a) Comment noted.	York Region	a) Status - No Action Required		Yes	Closed (2015)	

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		7 cont'd	b) OSAA recommends that the Proponent continue to contact the relevant First Nations and that follow-up contact be made with all the identified First Nations and Aboriginal organizations.	b) Comment noted. The Proponent will continue to consult First Nations based on their identified interests/concerns and specific request for additional involvement (as an example, any First Nation that identifies an interest in archaeological findings will be forwarded any future archaeological reports prepared during detailed design).[1]		<p>Status – Completed</p> <p>Hwy 7 EA Notice of submission of CMP for public review and comment[1]</p> <p>Stage 2 Archaeological Report will be provided, once completed.</p> <p>Notifications for public meetings will continue to be provided.</p> <p>The Stage 2 Archaeological (Property) Assessment Report was completed in February 2012 and is awaiting MTCS concurrence. The circulation of the report to First Nations will be completed in Detail Design. [2014] MTCS provided a letter of concurrence on January 4, 2013.</p> <p>No First Nation communities or individual members have contacted the project team to request to be kept informed of the study as a result of circulating the archaeological reports, however an information package was sent to the Huron Wendat First Nation in November 2016. If contact is received in future phases from any First Nation member or community, they will be added to the study's contact list. No further archaeological assessments are required based on the Stage 2 findings.</p>	<p>Notice of Submission of CMP (ID# 4121) and CMP distribution lists to First Nations, Government Review Team and other stakeholders (ID# 4122, 4123, 4124, 4125) [1]</p> <p>Stage 2 Property Assessment VivaNext H2 Preliminary Engineering Highway 7 Corridor Islington Avenue to Yonge Street Connection Road Public Transit Improvements February 2012(ID#8294)</p> <p>Letter from Ministry of Tourism, Culture, and Sport, Re: Review and Entry into the Ontario Public Register of Archaeological Reports dated January 4, 2013, (ID#9429)</p> <p>Correspondence to Huron Wendake First Nation dated November 21, 2016 and Program Update package (ID# H2WE-2016-106)</p>	Yes	Closed (2015)	
			c) The Crown has a duty to consult with Aboriginal peoples where its actions may adversely affect established or asserted Aboriginal or treaty rights.	c)		<p>b) Status – Completed</p> <p>Notices of "Open House"</p>	Newspaper advertising (ID# 2865), (ID# 3754)	Yes	Closed (2015)	

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			OSAA recommends that MOE consult their legal branch for advice on whether the Crown has any constitutional or other legal obligations to consult Aboriginal peoples in these circumstances.			format public consultation opportunities were provided through newspaper advertising.				
Health Canada	Ms. Carolyn Dunn, Environmental Assessment Officer	8	These comments are in regards to the responses to Health Canada comments on the draft EA report dated July 8, 2005. a) Section 6.2.5 – A contingency plan for managing effects to drinking water wells needs to be developed as part of the environmental assessment, rather than later in the process. Furthermore, no responses were provided related to the identification of municipal drinking water intakes; this is required as part of the assessment.	a) As noted in Table 11.3-1 (I.D.#4), the Proponent has committed to preparing a contingency plan [1] to address potential effects to water wells during detailed design of the undertaking. Identification of wells and municipal drinking water intakes will be undertaken during detailed design.[2]	York Region	a) Status – Ongoing See Item 44.	Water Taking Report In support of Dewatering During Construction VivaNext H2 East and H2 West Bus Rapid Transit Expansion, Regional Municipality of York, Ontario – August 2016 (ID#29)	Yes	[1,2] ECF	Items [1] and [2]: ITEM #44, support the assertion that impacts to wells are not anticipated with one well is being further investigated; and that wells were identified. .
			b) Appendix K – it is crucial that construction noise be included in the EA. This is standard practice in EA, to consider the effects of all phases of the project. The changes in the acoustic environment during construction constitute an important potential effect to human health.	b) As noted in Table 11.4-1 (Construction Monitoring), the Proponent has committed to monitoring noise generated by construction activities to ensure compliance with Municipal By-Laws.(1)		b) Status – Ongoing Noise by-law exemptions were obtained from the Region of York and Town of Richmond Hill. Noise measurements were collected prior to construction (baseline) and during construction when activities peaked with the loudest and most machinery operations on site. Weekly noise inspections are completed and signed by an Environmental Inspector to ensure noise controls are maintained during construction activities.	Memorandum #2016-02: 2016 Summary Memo - Noise By-law Exemption and Noise walls (ID#83) Baseline Noise & Vibration Report - Bathurst Street & Highway 7 - June 28, 2016 (ID#84) Construction Noise Monitoring Report - vivaNext Rapidway Project Highway 7 West, Vaughan - August 15, 2016 (ID#85) Memorandum #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 [ID# 76]	Yes	[1] ECF	Item[1]; Documents ID#76, ID#83-85, support the assertion noise impacts are monitored and that by-law exemptions were obtained.
			c) Appendix L – In order to fully protect human health, ozone must be included in the air quality assessment of the EA. The reference for odour and formaldehyde in Section 4.2 of the air quality assessment should be provided in the EA (not referenced on the internet).	c) As noted in Table 10.4-3, there is a net positive effect on all air pollutants assessed related to the proposed undertaking.		c) Status- No Action Required		Yes	Closed (2015)	
Ministry of Transportation (MTO)	Mr. Robb Minnes, Project Manager	9	The notes below are items that the MTO raised on the draft EA report and how they have been addressed in the final EA report. <i>GO BRT and Hwy 407 Transitway</i> a) MTO indicated that the references in the EA to the relationship between the GO BRT project and the 407 Transitway were confusing. While not a critical issue, it	a) Comment noted. The undertaking for the 407 Transitway will be defined through a separate EA by the MTO.	York Region	a) Status - No Action Required		Yes	Closed (2015)	

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			would have been preferred if section 1.3g had included the following clarification: "The initial phase of the GO BRT project, as supported by MTO, consists of buses running in mixed traffic on existing road facilities including section of Hwy 407. The 407 Transitway, which has been planned and is being protected by MTO, is designed as a fully grade separated transit facility supporting bus or LRT technologies. It will run adjacent to, but outside of the Hwy 407 r.o.w. between Burlington and Oshawa".							
			b) MTO had also requested that where the EA discusses Hwy 7 or Vaughan north-south transit service interface with Hwy 407 transit service, it should address both shorter term interface with GO BRT mixed traffic service on Hwy 407 as well as longer term interface with the grade separated 407 Transitway service. This has been done.	b) Comment noted.		b) Status - No Action Required		Yes	Closed (2015)	
			<i>Plans and Figures</i> c) All of the plans referring to "407 Transitway" have been changed to "Future 407 Transitway" except Figures 8.3-1 through 8.3-17.	c) Comment noted.		c) Status - No Action Required		Yes	Closed (2015)	
			d) The proposed sidewalk on the south side of Hwy 7, shown on Figures 9-43 and 9-44 has been deleted as requested.	d) Comment noted.		d) No Action Required		Yes	Closed (2015)	
			<i>Structures</i> e) Section 9.1.5 identifies work required to accommodate the transit corridor where it crosses CAH designations including lane width and sidewalk reductions as well as structure modifications. Pursuant to the MTO's request the introduction to Section 9.1.5 now indicates that the identified modifications within the CAH must be reviewed and approved by the Ministry. Further, the CAH modifications are now identified throughout this section.	e) Comment noted.		e) No Action Required		Yes	Closed (2015)	
			f) The Final EA document is acceptable to the MTO.	f) Comment noted.		f) No Action Required		Yes	Closed (2015)	
Town of Markham	Mr. Arup Mukherjee	10	General Committee Report re. Hwy 7 EA a) Recommendations include that Council endorse the findings of the Environmental Study Report for the Hwy 7 rapid transit project, and that staff continue to work with Regional and YRTP staff to finalize the design for	a) Comment noted. York Region will continue to work with local municipalities including the Town of Markham, during detailed design and implementation of the undertaking.	York Region	a) Status – Does not apply to the H2-West or H2-East segments		Yes	Closed (2015)	

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			the rapid transit facility.							
			b) Based on the above endorsement, staff has worked with the Proponents for the Liberty development to secure and protect sufficient r.o.w. along Town Centre Blvd for the rapid transit proposal. It is recognized that further consultation will be required with IBM to secure the remaining r.o.w. for this option.	b) Comment noted. The Region will work with the local municipalities to secure the required r.o.w.		b) Status – Does not apply to the H2-West or H2-East segments		Yes	Closed (2015)	
City of Toronto	Mr. Rod. McPhail	11	Letter dated December 6, 2005 Hwy 7 EA a) The EA report indicates that, in the absence of an approved alignment for the Spadina Subway extension between Downsview Station and Steeles Ave, the study could not come to any conclusions regarding a recommended alignment and preferred design for a further extension of the Spadina Subway north of Steeles Ave. The EA report proposes, in spite of the lack of a recommended alignment or preferred design, that a subway extension from the potential Steeles Station to Vaughan Corporate Centre (VCC) be approved. The EA report recommends, however that in order to follow through on a subway extension, an amendment (or addendum) to the EA will be completed. This amendment would use the approved alignment from the TTC/City EA, once MOE approval is received, as a starting point to develop and assess alternative design concepts for the subway extension between Steeles Ave and VCC. Chapter 12 of the EA report contains a description of the components of the amendment report.	Throughout the Region's EA Study process, York Region TTC and City of Toronto staff have participated in a reciprocal manner on the respective Technical Advisory Committees for the Spadina Subway Extension, both in Toronto and York Region. The confirmation of subway alignment recommended in prior studies relating to property protection for the VCC and the identification of the extent and scope of the tie-in alignment to be addressed in the addendum resulted from close collaboration with TTC staff and their consultant. This consultation has ensured that the alignment for the portion of the subway extension north of Hwy 407, for which approval is sought in the Region's EA is compatible with all alignment options from which the TTC/City of Toronto EA's preferred alignment will be selected. Also, the discussions and exchange of information form the basis of the description of components that are required to be addressed in the proposed addendum for the portion south of Highway 407 where the tie-in to the TTC's preferred alignment would be achieved.	York Region	Status- No Action Required The Spadina Subway Extension is the subject of a separate CMP.		Yes	Closed (2010)	
			EA Consultation b) Both the Hwy 7 EA and the Spadina Subway Extension EA had a TAC with staff representatives from York Region, City of Vaughan, YRT, City of Toronto and TTC.	A revised Figure 12-4 is included in the supplementary information regarding the Vaughan North-South Link and includes the preferred alignment identified in the TTC Spadina Extension EA (The preferred TTC EA alignment had not been confirmed at the time the Region's Hwy 7 and VNSL EA was being completed for formal submission).		Status –No Action Required		Yes	Closed (2015)	
		11 cont'd	c) In addition to attending TTC/City EA TAC meetings for the Spadina Subway extension EA, York Region, YRT and City of Vaughan representatives have met with TAC staff regarding proposed Steeles Ave station options and subway design requirements to extend the			Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	

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			subway beyond the proposed Steeles Ave station. The outcome of this work was the development and evaluation of concepts for the proposed Steeles Ave station, subway alignment, and ancillary facilities. The preferred concept for the Steeles Ave station, and the subway alignment in its vicinity, will be put forward to the MOE upon Toronto City Council approval of the Spadina Subway Extension EA findings and the completion of the EA report (early 2006). The preferred alignment (N-3 on attached figure) was identified through the TTC/City EA study process and was evaluated by the TAC during the summer of 2005. This alignment is not consistent with the preferred alignment A-1 shown in the Hwy 7 EA.							
			Timing of Evaluation/Selection of Alignments d) The draft Hwy 7 EA was circulated for review in April 2005. At that time the TTC/City Spadina Subway Extension EA study was finalizing the selection of a preferred route, which was shown at public meetings in May 2005. The City's review of the draft EA, noting no substantial comments, was based on their understanding that the component of the study dealing with the subway would be updated to reflect current work from the TTC/City study prior to York Region submitting its final EA report. In particular that Chapter 12 would be reworked to reflect the TTC/City EA work.			Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
			e) York Region changed the final version of Chapter 12 quite substantially from the draft EA. However, the evaluation of alignment options relies almost entirely on alignments generated based on the 1993 TTC EA for the subway extension. While the recommended A-1 alignment, for which approval is requested, is similar to one of the alignments evaluated in the more recent TTC/City EA (as far as the tail track north of Steeles Ave), it is not the preferred alignment that has been put forward to Toronto City Council for approval. The preferred alignment from the TTC/City EA was not evaluated in the Hwy 7 EA, even though that alignment was identified prior to the Region finalizing its EA report in August 2005.			Status – Does not apply to H2 segment		Yes	Closed (2015)	
		11 cont'd	f) Amendment to Hwy 7 EA The City of Toronto and TTC suggest that an			Status – Does not apply to H2 segment		Yes	Closed	

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			addendum to the Hwy 7 EA, reflecting the preferred alignment to Steeles West Station, would be an appropriate venue to address the concerns that they have, assuming that an addendum is completed prior to the City and TTC considering a further extension of the Spadina Subway for approval through the City's and TTC's planning and approval processes.						(2015)	
Region of Peel	Sabbir Saiyed, Principal Transportation Planner	12	a) The Region of Peel Official Plan places a strong emphasis on the increased use of sustainable transportation nodes such as transit, cycling and walking. Peel Region recently adopted the following transportation vision to focus efforts in achieving a desired future transportation system: "Peel Region will have a safe, convenient, efficient, multi-modal, sustainable and integrated transportation system that supports a vibrant economy, respects the natural and urban environment, meets the diverse needs of residents and contributes to a higher quality of life".	a) Comment noted.	York Region	a) Status - No Action Required		Yes	Closed (2015)	
			b) The Region of Peel supports a balanced transportation system that promotes both roads and transit. The Region encourages improved accessibility by road and public transit to major nodes and corridors. On page E-7, it is stated that the preferred alternative will be able to meet long-term growth needs and planning objectives. They suggest that the current EA should take into consideration the needs to move automobile and truck traffic safely and efficiently on the Hwy 7 corridor and examine an alternative that supports all modes of transportation. Thus, a balanced alternative needs to be investigated further.	b) Comment noted. A wide range of alternatives to the undertaking were included in the assessment (refer to Chapter 3 of the EA report) to address the purpose of the undertaking as approved by the Minister of the Environment. The purpose of the undertaking is summarized in Section E.2 of the EA report. The preferred alternative to the undertaking (described in Section 3.1.5) includes all components of the "current commitments" (described in Section 3.1.2), including all York Region Transportation Master Plan improvements. The Transportation Master Plan includes a multi-modal approach to address travel demand and goods movement to 2031.		b) Status - No Action Required		Yes	Closed (2015)	
		12 cont'd	c) Local public transit along Hwy 7 (Regional Rd 107) in Peel Region is operated by the City of Brampton. Therefore in order to improve future transit services on the Hwy 7 corridor, it is important to coordinate transit improvements in close partnership with the City of Brampton and Peel Region.	c) The Region of Peel has been included in the Technical Advisory Committee and the Government Review Team for this formal EA submission. York Region will work with Peel to integrate any future Hwy 7 transit improvements west of Hwy 50 with the York Region undertaking defined in this EA.		c) Status – Does not apply to H2 West or H2-East Segments		Yes	Closed (2015)	
			d) A station should be considered in the vicinity of Hwy 7 and Hwy 50. Schedule A of the City of Brampton Official Plan designates this area as a "Primary Office Node". Since this area will be a major trip generator, a station is	d) As noted in Figures 9-1 and 9-2, a transit stop has been proposed at Hwy 50 which is the planned terminus of rapid transit service as defined through this EA. Should rapid transit service be planned west		d) Status – Does not apply to H2 West or H2-East segments		Yes	Closed (2015)	

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			justified at this location. Section 4.3.4.12 of the Peel Region's Long Range Transportation Plan (LRTP) supports this position by directing the Region to "support gateways and interconnections between the local bus network and future transitways, especially at Regional urban Nodes".	of Hwy 50 into Peel Region, York Region will work with Peel Region to integrate services appropriately.						
			e) A reference is made regarding Hwy 427 on page 9-8 as: "Between Hwy 50 and Hwy 27, the existing Hwy 7 alignment would shift to the north up to 6.7 m to incorporate the MTO's future Hwy 427 extension allowing Hwy 7 to be widened on the north side only". This should be discussed with Peel Region and MTO before proceeding further.	e) MTO will be consulted during detailed design as it relates to any work within their jurisdiction, including widening of the existing Hwy 7 structure over Hwy 427.		e) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
			f) To ensure that there will be good connectivity between Peel and York Regions, the EA study area (page 2-1) should include areas west of Hwy 50 along Hwy 7 in Peel.	f) The study area for this EA extends from the York/Peel boundary (Hwy 50) to the York/Durham boundary. Should Peel Region or Brampton choose to define transit improvements west of Hwy 50, York Region will work with the neighbouring jurisdiction to integrate services accordingly.		f) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
			g) The Region of Peel LRTP has the following policies regarding transit improvements and promotion: - LRTP Policy 4.3.4.4: Support fare integration and service coordination of inter-regional and local transit, especially at transfer points within Peel, with services in neighbouring municipalities and with GO Transit. - LRTP Policy 4.3.4.9: Work with all levels of government to advance inter-regional transit plans including rapid transit, commuter rail, GTA transit corridors and GTA transportation centres. - To make transit an attractive alternative between York and Peel Regions, Viva and the City of Brampton – AcceleRide – transit initiative should commit to plan and implement seamless travel between York and Peel with better fare integration and hassle-free transfer service.	g) Comments noted. The undertaking defined in this EA includes rapid transit service as far west as the York/Peel boundary. Should Peel Region or the City of Brampton choose to plan additional service within their municipal boundary, York Region will work with the neighbouring jurisdiction to integrate services accordingly. Transit fare integration is outside the scope of this EA.		g) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
		12 cont'd	h) The pedestrian environment is not adequately addressed at the boundary of Peel/York Region. The EA study indicates that Hwy 7 may be perceived as a highway-like road, which in turn with the introduction of transit service vehicles could create an unfriendly environment for pedestrians" (page 10-5). In order to attract transit users, it is important to provide a safe,	h) As shown on Figure 9-2, sidewalks are planned for both sides of Hwy 7 as far west as the York/Peel boundary (Hwy 50). A conceptual streetscape plan is described in Section 9.1.1 of the EA report. A detailed streetscape plan will be developed during detailed design. Page 10-5 (Table 10.4-2) identifies potential Environmental Effects. The table also identifies the		h) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	

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			comfortable and attractive pedestrian environment. An unfriendly pedestrian environment can be a barrier for commuters to choose transit as their preferred mode of transportation. Therefore, more effort should be taken to ensure the pedestrian friendliness of the project.	Built-in Positive Attributes of the undertaking (i.e. Design transitway to facilitate safe pedestrian road crossings with median refuge. Improved streetscaping in order to create a friendlier pedestrian environment).						
			i) On page E-5, the description of route alternatives is provided for Segment A: between Hwy 50 and Hwy 400. It is mentioned that "...the only feasible route alternative is to locate the transitway in the median of the existing Hwy 7 cross-section...". The above statement needs to be discussed further and coordinated with Peel Region and the City of Brampton for further service integration.	i) Chapter 5 of the EA report includes screening of route alternatives for Segment A (York/Peel boundary to Hwy 400) and includes the consideration of six different routes (Steeles Ave, Hwy 407, Hwy 7, Langstaff Rd, Rutherford Rd and Major Mackenzie Dr). See Table 5.1-1 (Preliminary Screening of Route Options) and Table 5.3-1 (Analysis of Alternative Routes and Technology Combinations).		i) Status - No Action Required		Yes	Closed (2015)	
Durham Region	Mr. Ramesh Jagannathan, Manager Transportation Planning and Research	13	a) As noted in the EA report, the preferred option proposes buses operating in mixed traffic between the York-Durham Line and Reesor Rd, until such time as an extension of the transitway is warranted. Durham Region supports the wording that has been added to Section 8.3.6.1 since the draft EA report, which states that additional r.o.w. east of Reesor Rd should be acquired through the site plan process for adjacent development, in order to accommodate dedicated transit lanes in the long-term.	a) Comment noted.	York Region	a) Status - Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			b) The Region will assume local transit services from the area municipalities on January 1, 2006. Accordingly, Durham Region Transit is committed to working with York Region Transit to coordinate future transit service delivery.	b) Comment noted.		b) Status - No Action Required		Yes	Closed (2015)	
		13 cont'd	c) The preferred option (Option 9-1.1) proposes a future transit station at Hwy 7 and the York-Durham Line. Durham Region note that this station has been detailed further, since the Draft EA report in the preferred alignment drawing (i.e. Figure 9-81). Durham Region suggests that additional wording be added in Section 8.3.6, noting that this station could potentially be moved to an easterly location in the future urban area of Seaton. This would provide a more direct connection with Durham Region Transit services. Please note that the proposed Draft Central Pickering Development Plan for the Seaton urban area identifies a future transit	c) Comment noted. York Region Transit will work with Durham Region Transit to ensure coordinated service at the boundary between the two jurisdictions.		c) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			station (referred to as a Transit Interchange) at Hwy 407 and Sideline 26.							
			d) The choice of Hwy 7 for rapid transit services, over Hwy 407, is understandable given York Region's focus on intra-regional urban transit services. The Hwy 407 Transitway, however, is more significant from an inter-regional point of view. As such, rapid transit service on Hwy 7 should be treated and designed to be complementary with future Hwy 407 Transitway services, rather than competitive.	d) Comment noted. As noted in this comment and described in the Region's Transportation Master Plan and in various sections of the EA report, the undertaking is a key component of the York Region Rapid Transit Plan, which focuses on intra-regional urban rapid transit, with connections to inter-regional services (such as GO Rail and 407 Transitway) and other neighbouring rapid transit (TTC etc...).		d) Status - No Action Required		Yes	Closed (2015)	
Toronto and Region Conservation Authority	Ms. Beth Williston	14	a) TRCA recognizes that the Preferred Design requires a new crossing of the Rouge River (see figure 9-60). Staff met on site with York Region and Rouge Park representatives to discuss the implications of this crossing on November 18, 2005. Further to this meeting, staff completed its review of the document and advises that TRCA has no objection to the proposed crossing, as its impact to the placement and function of the transitway is now understood.	a) TRCA agreement in principle to the proposed Rouge River crossing is noted.	York Region	a) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
			b) Table 8.3-9 should be revised in order to clearly distinguish this alternative as preferable to the others, particularly as it will have the greatest negative impact on the natural environment.	b) A revised Table 8.3-9 is included in the attached supplemental information to TRCA. The table is revised to include more of the detailed information as presented in Table 8.3-5 and wording as summarized in the text of section 8.3.5.1 that better distinguishes the preferred alignment alternative.		b) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
			c) Any new crossing of a valley or stream corridor has a significant impact on the ecological function of the system. In accordance with TRCA's Valley and Stream Corridor Management Program as well as Rouge Park programs and policies, valley and stream crossings must be minimized in order to preserve the environmental integrity of the system. To this end, TRCA is advising that any future crossings of the Rouge River and its tributaries in this area are of significant concern. TRCA and Rouge Park will require that future Environmental Assessment or Planning Act applications in this area be developed such that no new crossings of the Rouge River, Apple Creek or Beaver Creek are approved.	c) Comment noted for future Environmental Assessment or Planning Act applications in this area.		c) Status –Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
		14 cont'd	d) TRCA requests that York Region commit to restoring the surrounding valley land and floodplain as part of a	d) The Region will work with TRCA to develop a compensation plan during detailed design that		d) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			compensation plan to address the impacts associated with this new crossing. This process would include the acquisition of the flood plain property west of Warden Avenue and south of Cedarland Drive for this purpose. A restoration plan should be prepared in consultation with TRCA staff to ensure that Terrestrial Natural Heritage objectives are met to maximize the ecological benefit to this area. Notwithstanding the above, additional compensation may be required when this project moves to detailed design.	satisfies the agencies requirements. As noted in section 11.2.1, the requirement for TRCA permits are identified as part of post-EA approval activities.						
			Please note that other outstanding TRCA concerns are provided below: e) The sentence in the third paragraph on page E-7 that ends "... to preserve the aquatic habitat" should be revised to read "... to preserve the aquatic and terrestrial habitat".	e) Comment noted.		e) Status - No Action Required		Yes	Closed (2015)	
			f) It should be noted on Page 9-16 that the minimum crossing opening for Local Alignment C3-4 to satisfy geomorphic requirements is expected to be approximately 80 to 120 metres, and may be greater depending on site conditions. Additionally, the conceptual crossing structure profile and dimensions should be removed from Fig 9-60 to ensure that the EA is not misinterpreted to read that a 30 metre crossing may be permitted.	f) Section 9.1.5 (27) indicates that a meander belt analysis and a 100 year erosion limit will be determined during preliminary and detailed design to determine the sizing of the bridge span for the planned Rouge River crossing. Figure 9-60 also indicates that the sizing of the structure will be determined during the design phase. A revised figure 9-60 is attached and has been revised to delete the reference to a 30 metre structure span.		f) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	
		14 cont'd	g) Table 8.2-1 has been revised to include an indicator under Objective C4 for "extent of channel realignment", but not for impacts to restriction of channel plan form as per previous comments. Staff considers the extension of existing watercourse crossings to be potentially detrimental to physical processes in the watercourse, as this will impede natural plan form migration by confining additional channel length in structures that are of insufficient width to allow full meander bend development and evolution. Table 8.2-1 and 10.4-3 should be revised so that this issue is reflected in the evaluation.	g) The indicator "extent of channel realignment" has been considered a measure of any additional restriction of channel plan form due to the channel having to be re-aligned locally at existing crossings to follow the increment of increase in length of existing crossing structures. Generally, this increase is under 5 metres at the entrance and exit of culverts and bridges which at present, have a length suitable for crossing a 5-7 lane roadway. The Region agrees that the textual assessment of effects preceding Table 10.4-3 should include recognition that the extension of existing crossings with insufficient width to allow full meander development [1] will introduce a moderately significant effect on natural plan form migration at existing crossing entrances and exits. This will be addressed further during the TRCA permit approval		g) Status – Ongoing Additional channel lengths will be confined inside the culvert extension both upstream and downstream of Culvert C1. However, the culvert extensions have been skewed to align with the planform of the watercourse. Adequate bank protection measures and geomorphic features have been incorporated in the design to stabilize current dynamic conditions of erosion, aggradation and degradation in due consideration of the natural planform migration tendencies. Geomorphology Reports are	H2W-CIV-C1-100 to 104 H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20) Technical Memorandum: Terrestrial Restoration Plan – Crossing C1 Inlet and Outlet Channels – Attachment 2 – August 30, 2016 (ID#28)	Yes	[1] EF	Item [1]; Documents ID#20 and ID#28 support the assertion regarding mitigating effects of culvert extension for C1. Action: For 2017 ACR, please provide details for all other culverts (i.e., if applicable or not)

Appendix 2 Action for comments received from the <u>Government Review Team</u> on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
				stage in the development of a compensation plan to maximize ecological benefit.		under development. A Terrestrial Restoration Plan was prepared to support the TRCA permit application at Culvert C1. The plan followed TRCA guidelines, and identifies shrub plantings and a tree restoration zone for replacement plantings (see Attachment 2 of the plan). Discussions with the TRCA regarding vegetation removals are on-going and restoration plans will be prepared if required as a component of permitting at other locations.				
			h) The number of new and widened watercourse crossings associated with each alternative route should be included in Table 8.3-2, as per evaluation tables in other sections.	h) The three alternatives for Segment B East (refer to page 8-10 of the EA report) have the following new/widened watercourse crossings. Alternative B4 – No new or widened crossings required. Alternative B5 – New crossings include: Westminster Creek east of Dufferin Street; West Don River east of Dufferin Street, west of Bathurst Street and east of Bathurst Street; Widened structures at Hwy 7 over East Don River. Alternative B6 – No new crossings or widened crossings required. With the inadvertent omission of listing the watercourse crossings from Table 8.3-2 in the EA report, the selection of Alternative B6 as the Technically Preferred Alternative does not change.		h) Status - No Action Required		Yes	Closed (2015)	
			i) The transitway station on Fig 9-60 should be removed from the Rouge Valley corridor and regional floodplain. The note provided does not sufficiently indicate that the station location must be outside the valley corridor and floodplain.	i) During detailed design, the Region will refine the station location and design solution to meet TRCA requirements for protection of the valley corridor and flood plain based on a detailed survey of site conditions.		i) Status – Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			j) The Stormwater Management Preliminary Assessment provided in Appendix G is not sufficient to confirm that an effective stormwater management system for the transitway can be provided, and therefore the	j) The Proponent will commit to working with the TRCA during preliminary [1] and detailed design [2] to ensure that the stormwater management plan provides a net improvement in water quality of the		j) Status – Ongoing Development of a Storm Water Management Plan (SWMP) is underway and is being prepared	Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes		Item [1] was closed in 2012. Item [2] Documents ID#49-51, support the assertion regarding working with TRCA on stormwater management

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			<p>"insignificant" level of impact to water quality assumed in Table 10.4-3 cannot be confirmed. The material provided in Appendix G does not confirm the locations and availability of land for stormwater management measures and for many segments of the transitway no stormwater management measure are proposed. The consultant presents an argument to explain the latter in Appendix G as follows: "The existing roadway runoff has a greater impact on the downstream watercourses that the potential increase in runoff due to the proposed transitway. Stormwater management in urbanized areas should therefore be developed as part of an initiative to provide treatment on a watershed basis rather than trying to manage the incremental change resulting from the proposed transitway. This type of initiative would be separate from the current environmental assessment for the Hwy 7 Corridor Public Transit Improvements."</p> <p>This rationale does not justify that lack of proposed treatment for portions of the transitway, as it is the objective of the TRCA to obtain a net benefit in water quality treatment for all new transportation infrastructure projects. Deferring the fulfillment of treatment of this objective to large scale initiatives for urban stormwater retrofit, as the consultant suggests, is not acceptable, as it has been shown to be significantly more difficult and costly to provide stormwater treatment in a retrofit context than incrementally during the design and construction of new infrastructure. Therefore, the Proponent should demonstrate that stormwater measures for the transitway can be provided that will provide a net improvement in water quality in the receiving watercourses. The appendix should be revised to address stormwater management for all sections of transitway that will be service by each measure. It may be useful for the consultant to review the recent EA report for the Markham Bypass (southern portion) being prepared by the Regional Municipality of York, as it contains an appendix that addresses stormwater to a comparable level of detail as is expected in the response to the above comments.</p>	<p>receiving watercourse. Opportunities to include treatment for this undertaking with broader infrastructure initiatives will be reviewed during the design phase. The proponent agrees that deferring the fulfillment of treatment of this objective is not acceptable. Additional information regarding the Stormwater Management Preliminary Assessment is included as supplementary information with this response to TRCA.</p>		<p>accordance with the MOE's Stormwater Management Planning and Design Manual (2003) and Guidelines for Evaluating Construction Activities Impacting on Water Resources. The preliminary SWMP is provided in the Drainage Design Report.</p> <p>The Drainage Design Report indicates that in order to achieve Water quality controls up to the MOE water quality guideline of Enhanced Level (80% total suspended solids removal), new oil/grit separator units will be provided in addition to the existing oil/grit separators to treat the roadway runoff before discharging to the outlets (drawings 122, 123, 126, 127, 130 to 133 of ID#95.</p> <p>Stormwater management has been discussed with the TRCA during detailed design at the meetings held on October 13, 2016, December 1, 2015 and July 5, 2016.</p>	<p>H2E-CIV-NC-122 to 159 H2E- Civil Works – New Construction – August 10, 2016 (ID#95)</p> <p>Minutes of Meeting: EDCO, TRCA, YR, MMM and EJV – Meeting No. 1 – October 13, 2015 (ID#50)</p> <p>Minutes of Meeting: EJV, Bell, EDCO, MMM, TRCA and YR – Meeting No. 2 – December 1, 2015 (ID#51)</p> <p>Minutes of Meeting: EDCO, EJV, TRCA and YR - Meeting for Culvert C1 No. 4 - July 5, 2016 (ID#49)</p>			<p>planning.</p>

Appendix 2 Action for comments received from the Government Review Team on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
		14 cont'd	k) Suitable information has not been provided to confirm that impacts to terrestrial passage at stream crossings will be "insignificant", after mitigation, as indicated on Table 10.4-3 under objective C2. In particular, the extension of existing crossings may significantly reduce the potential for wildlife use and these effects cannot be entirely mitigated with the types of measures proposed, particularly as the option of "increasing vertical and horizontal clearances" is not available for the extension of existing crossings. In the absence of additional information, the level of significance after mitigation for this item should be ranked as at least "moderately significant".	k) Culverts/bridges that will not be replaced for transitway insertion in the roadway cross-section will be investigated further during detail design to formulate site-specific retrofit opportunities to enhance wildlife passage. [1] The culvert extensions required are not expected to significantly impede or improve wildlife passage under Highway 7. As suggested by TRCA, the level of significance after mitigation can be considered to be moderate in the absence of additional information to be provided during the design and permit approval phase of the project.		k) Status – Completed Wildlife passage at crossings where culvert extensions are required was investigated during detailed design. All crossings were reviewed to determine feasibility of wildlife passage and only those locations where wildlife corridors may be present were investigated (i.e., culverts C1, C7 and C8/C9) for improvement options. The height and width of the culverts will remain unchanged. Although the openness ratio of each culvert will decrease as a result of the extensions, there is no evidence that changes in these parameters will negatively impact culvert passage by the medium to small wildlife species. Recommendations to enhance wildlife passage includes reinstating permanent vegetation cover to create a funneling effect for wildlife.	Technical Memorandum: Wildlife Passage at Key Culvert Crossings – August 26, 2016 (ID#42)	Yes	Closed (2016)	The document provided (ID#42) support the assertion regarding considering wildlife passage. This item is closed.

Appendix 2 Action for comments received from the <u>Government Review Team</u> on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
			l) The monitoring frequency in Table 11.4-1 for “effect of construction on water quality and quantity in watercourses” should be revised to indicate that monitoring should occur after every major storm event.	l) Comment noted and will be carried forward to the design and construction phase of the project.		l) Status – Ongoing Erosion and sediment control measures will be in accordance with the Environmental Management Plan (EMP) Standards and Practices for Soil Erosion and Sediment Control. Preparation of Erosion and Sediment Control Plans are underway and include measures to prevent impacts to watercourses. During construction, daily inspections are undertaken to monitor environmental controls, including erosion and sediment control measures. See Item 65.	H2E-CIV-ESC-90% Design Development Submittal - August 10, 2016 (ID#91) BWM-CIV-ESC-000 of the Bathurst Watermain IFC Drawing Package Memo #2016-01: 2016 Summary Memo - Environmental Site Inspection from EDCO, dated September 29, 2016 (ID#76)	Yes	[1] EF	Item [1]: Document (ID#76) supports that daily monitoring of ESC is done which includes post major storm
			m) The discussion of water quality and quantity monitoring in Table 11.4-2 is not satisfactory as the monitoring methods and frequency are not appropriate for the monitoring purposes. Specifically, monitoring of sediment accumulation in stormwater management facilities will not indicate the effect of snow and ice removal in corridor watercourses. It is recommended that separate monitoring items be developed for sediment accumulation, stormwater management facilities and impacts of snow and ice removal. Water quality impacts of snow and ice removal, as well as regular transit operations, should be monitored by measuring chlorides, suspended sediment, and other water quality parameters, at the outlets of the various stormwater management facilities during both storm and snowmelt events. The accumulation of sediment in stormwater management facilities should be monitored by measuring the accumulation at a reasonable interval based on the expected sediment loading and storage capacity of the facility. Table 11.4-2 should be revised accordingly.	m) The Region will develop a detailed monitoring program covering all aspects noted during detailed design in consultation with TRCA. [1] All required measurements, specifically to assess the effect of the transitway insertion, will be included in the monitoring program. [2]		m) Status – Future Work The monitoring program for sediment accumulation, stormwater management facilities and impacts of snow and ice removal is a post-construction activity and will be developed by York Region in consultation with TRCA.		Yes	[1] AC	Item [1]: It is accepted that this monitoring is Future Work.

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Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
		14 cont'd	n) It has been correctly identified that all culvert and bridge extensions or widenings may result in the Harmful Alteration, Disruption or Destruction of fish habitat and that compensation under the Fisheries Act may be required. At the detailed design stage, TRCA ecology staff will review all culvert/bridge modifications, and will require that: a) Any potential impacts are mitigated whenever possible; b) Effective sediment and erosion controls are provided and c) There will be a net benefit to the aquatic and floodplain system. Please note that it is possible that additional watercourses may be identified during detailed design stage, and that a TRCA permit and review under Fisheries Act, along with all other applicable legislation may apply.	n) Comment noted to be carried forward to the detailed design phase (as noted in section 11.2.1, the requirement for TRCA permits are identified as part of post-EA approval activities).[1]		n) Status – Ongoing DFO review is no longer delegated to TRCA. DFO Self-Assessment was carried out for Crossings C1, C7, and C4 (Highway 400 area).	DFO Self-Assessment Criteria for Culverts C1, C7 and C4 (Highway 400) [ID# 64] H2W-CIV-C1-100 to 104 H2W – Highway 7 Civil Works – C1 Culvert – August 8, 2016 (ID#20) H2W-CIV-C1-103 H2W – Highway 7 Civil Works – C1 Culvert Erosion & Sediment Control Plan – August 8, 2016 (ID#47) Letter from EDCO to TRCA - Application for Crossing C1 at Highway 7, vivaNext BRT Expansion - September 2, 2016 (ID#63)	Yes	[1] ECF	Item [1]: It is acknowledged that TRCA participation and FAA have changed. The documents provided support the assertion regarding approach to Fisheries Act.

Appendix 2 Action for comments received from the <u>Government Review Team</u> on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment Final Report					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
						<p>No other in-water works are proposed (e.g., at bridges) that would cause Serious Harm. A Self-Assessment determined that a DFO Project Review would be required based on various criteria including channel modifications and changes to footprint below high water mark. Preparation of Project Review documentation for submission to DFO is underway.</p> <p>Applications to TRCA either have been or will be made for work in or adjacent to several watercourses. TRCA application for Culvert C1 was submitted on September 2, 2016: Potential impacts have been mitigated with geomorphic design elements including bed and bank stabilization measures and site restoration plan Erosion and Sediment Control Plans are being prepared for the Project, and includes measures at culvert crossings. The net benefit to the aquatic floodplain will be in the form of improved geomorphic design of the watercourse, appropriate energy dissipation features and suitable bed and bank protection measures.</p>				
			o) Note that the tributary at station 541+300 (approx.) is being relocated to the east. Please contact Leslie Piercey for more information.	o) Comment noted to be carried forward to the detailed design phase (as noted in section 11.2.1, the requirement for TRCA permits are identified as part of post-EA approval activities).		o) Status – does not apply to H2 West or H2-East segment The noted tributary is located east of Birchmount Road,		Yes	Closed (2015)	

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Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description	Compliance Document Reference	Status	Results	Notes
						which is not in the H2 segment.				
			p) Impacts to groundwater resources will need to be addressed in greater detail, particularly in terms of construction related impacts from any required dewatering. Studies will be required to identify quantities, durations and zones of influence associated with aquifer depressurization or dewatering, along with any other environmental impacts that may be anticipated. Mitigation plans will be needed to protect any associated natural heritage features and groundwater related resources. Areas of particular concern have been identified within the EA report (between Hwy 400 and Jane St, and Hwy 404 and McCowan Rd), however, groundwater resources and the features dependent on them will need to be identified and protected throughout the entire corridor during the detailed design phase.	p) Comment noted. The impacts on groundwater resources and the features affected by them, throughout the entire Highway 7 Corridor, will be identified during the detailed design phase when the extent of any dewatering is known.[1] Mitigation plans will be developed to provide the necessary protection for natural heritage features and groundwater related resources in consultation [2] with TRCA and other appropriate authorities [3].		p) Status – [1,2] Complete Status [3] Future Work [1] Construction is generally not expected to encounter groundwater throughout the alignment, with the exception of excavations for several oil-grit separator units. These have been described in a Water Taking Report prepared as part of the EASR registration. [2] No specific mitigation plans have been developed as the anticipated impacts are low as a result of the small discharge volume, duration and the low permeability of the materials, which will limit flow. [3] Dewatering associated with oil-grit separator construction will be discussed with the TRCA. Consultation with other agencies is not necessary.	[1] Email from Sophia Sestito (EDCO), Confirmation of EASR registration from MOECC - August 11, 2016 (ID#70) [1, 2] Water Taking Report In support of Dewatering During Construction VivaNext H2 East and H2 West Bus Rapid Transit Expansion, Regional Municipality of York, Ontario – August 2016 (ID#29)	Yes	[1-3] EF	Items [1-3]: Documents ID#70 and ID#29 support the assertion regarding affects, and need of mitigation plans and consultation with TRCA. ACTION: Item [3] status should be "Ongoing"
		14 cont'd	q) Please note that the area identified for the Vaughan North-South Link (between Hwy 400 and Jane St) is an area of shallow or upward groundwater movement. This is an issue that will need to be addressed by TRCA's hydrogeologist at the detailed design phase.	q) Comment noted. TRCA's hydrogeologist will be contacted during the detailed design phase.		q) Status – Does not apply to H2 West or H2-East segment		Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
	Mr. Jeff Stone	1	a) Section 6.1.1.5 – To the locations of the additional terminals add the following: Promenade: <i>Southwest</i> of Bathurst and Centre; Vaughan Mills: <i>Southwest</i> of Jane and Rutherford; and York University: <i>Southwest</i> of Keele and Steeles.	a) Comment noted.	York Region	a) to n) Status - No Action Required		Yes	Closed (2015)	
			Section 6.1.2.5 b) Add to the Bathurst St Station “for Hwy 7 West” or future GO Transitway.	b) Comment noted.				Yes	Closed (2015)	
			c) Yonge and Centre Station was omitted. Was the level unacceptable?	c) Both Yonge St and Centre St are included in the listings of level of service in Section 6.1.2.5 of the EA report.				Yes	Closed (2015)	
			d) Where are the ratios of traffic at Laidlaw Blvd?	d) Existing traffic at the Laidlaw Blvd. intersection is operating at an acceptable level hence it does not appear in the listing of intersections at or near unacceptable levels of service.				Yes	Closed (2015)	
			e) Section 6.1.2.6 – Add “High traffic volume on Beverly Glen” and “There is a threat of neighbourhood traffic infiltration” to the Wiltshire Neighbourhood.	e) Comment noted				Yes	Closed (2015)	
			f) Section 6.3.3.1 – Under the City of Vaughan, note that Thornhill is divided in half at Yonge St between Vaughan and Markham, not Vaughan and Richmond Hill. Note that Thornhill is not in Richmond Hill as it is entirely below Hwy 7.	f) Inadvertant error acknowledged. Reference to Richmond Hill is incorrect.				Yes	Closed (2015)	
			g) Section 6.3.3.2 – Add the future areas at Bathurst and Centre/Promenade.	g) Comment noted.				Yes	Closed (2015)	
			h) Section 6.4.1.1 – Under Thornhill (Yonge St and Centre St), add that Yonge and Centre is an epicentre.	h) Comment noted.				Yes	Closed (2015)	
			i) Section 7.2 – Add “Proximity to development and origin-destination node/traffic generators”.	i) Comment noted.				Yes	Closed (2015)	
			j) Section 7.3 – Add “intrusion into land uses” and “Public comfort stations/commercial land uses nearby”.	j) Comment noted.				Yes	Closed (2015)	
			k) Figures 8.3-7, 8.3-9 and 8.3-10 – Add transit station at Bathurst and Hwy 7 West (Connection to GO/40 Transitway).	k) Comment noted. Potential station at Bathurst St and Hwy 7 identified in Section 8.3.3 of the EA report.				Yes	Closed (2015)	
			l) Page 8.3.20 – The best choice for Hospital Complex as midpoint in the area, therefore is most accessible.	l) Comment noted.				Yes	Closed (2015)	
			m) Table 8.3-2 – Why was B6 chosen when B-3 has 1 most responsive and B5 and B6 have only 8 criteriae?	m) B3 is an alternative to B1 and B2 and does not correspond with the section of route containing B6.				Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
		1 cont'd	n) Table 8.3-2 – Why was B6 chosen when B-4 has 3 least responsive and B4 and B6 have no criteriae?	n) B6 was assessed as having greater potential for the development of transit supportive land uses with convenient access to the stations while having no adverse effects that could not be mitigated.				Yes	Closed (2015)	
			o) Page 9.1 – GO stations in Woodbridge near Hwy 7 and Islington in Kleinberg are not shown in the plan	o) Stations on potential future GO services are not shown in the figure.		Status - No Action Required		Yes	Closed (2015)	
			Figure 9-25 p) One bus terminal is shown on the North side, but two terminals are shown on the Spadina Extension EA plan.	p) The figure shows only the Region-owned land designated for future transit terminal use. Any additional terminal facilities required are part of the undertaking for the Spadina Subway Extension EA.		Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
			q) Add one terminal on the south side of Steeles Ave (i.e. permanent for TTC routes S. of Steeles Ave).	q) Terminals on the south side of Steeles Ave are not part of the undertaking for this EA but may be included in the City of Toronto/TTC's Spadina Subway extension EA.		Status – Does not apply to H2-West or H2-East segments		Yes	Closed (2015)	
			r) Figure 9-35 – Add a second gap on Centre St to adequately serve retailers or some stores will die.	r) As shown in Figure 9-35 of the EA report, a full movement intersection (signalized) has been shown conceptually providing access to the lands north of Centre St between Vaughan Blvd and New Westminster Dr.		Status – Ongoing The existing Mall Entrance will be relocated to further west of the existing location to provide better access in and out of the mall. The intersection will have 2-Stage pedestrian crossing to facilitate movements in and out of the station. U-Turns will be permitted at this intersection to facilitate movements into the retail areas. The traffic analysis for the existing mall intersection and relocated intersection will be included in the Permanent Conditions Traffic Report and the 90% traffic signals design.		Yes	[1] AC	Item [1]: in 2012 ACR the evidence provided supported the change. It is accepted that this will be shown in the Traffic report
			Figure 9-36 s) The station site west of Promenade loop is on a slope and could pose stopping problems.	s) A station at the location shown will meet design standards.		Status - No Action Required		Yes	Closed (2015)	
			t) The right turn lane should be extended south of Centre St to the condo building entrance for flow.	t) The extent of turning lanes will be determined after further analysis of needs during the detailed design phase.[1]		Status – Ongoing The proposed future road design and traffic analysis underway has not identified any need for additional turn lanes at this location. The traffic analysis for this intersection will be included in the Permanent Traffic Conditions Report.		Yes	[1] AC	Item [1]: It is accepted that this will be shown in the Traffic report

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			u) Add a one to two lane northbound road versus three lanes shown in both directions on future plans.	u) Bathurst St will retain the existing two lanes in each direction, with the additional lanes being dedicated to rapid transit.		Status - No Action Required		Yes	Closed (2015)	
			v) Note the northbound station north of Atkinson poses a problem for the retail strip plaza vehicle access.	v) Access to the plaza on the east side of Bathurst St will be possible by making either a U-turn SB at the Atkinson Ave intersection followed by a right-turn into the plaza, or a left turn into Atkinson Ave and a second left-turn into the southern entrance to the plaza.		Status - No Action Required		Yes	Closed (2015)	
			w) Note the southbound station south of Atkinson poses a problem for school and community centre access.	w) Access to the community centre and school will be possible through the signalized intersection at New Westminster Dr.		Status - No Action Required		Yes	Closed (2015)	
			x) Section 12 – A1 Station Site: The advantages are is a better choice as it is under Steeles completely; lesser capital cost as no expropriation needed nor use of vacant land; better service to York University and has least effect on future development; and central location as perpendicular site allows access to all terminals. The disadvantage is that this location poses higher noise and vibration problems	x) Comment noted.		Status- Does not apply to H2-West or H2-East segment		Yes	Closed (2015)	
		1 cont'd	y) Page 12-4 – Add "Possible 2 nd bus terminal" on the north side. Note that non-TTC routes can be accommodated by one terminal until Spadina is extended north.	y) Overall terminal requirements at the Steeles Ave subway station are being defined by the Spadina Subway Extension EA. The station site will be addressed as part of the Spadina EA.		Status- Does not apply to H2-West or H2-East segment		Yes	Closed (2015)	
			z) In general, the EA omits reference to other potential east-west or north-south arterial corridors for rapid transit in future in south York Region.	z) The modeling of future rapid transit ridership has assumed enhanced transit service on parallel arterial routes in both the east-west and north-south directions.		Status- No Action Required		Yes	Closed (2015)	
Borden Ladner Gervais LLP	Mr. Stephen Waque	2	a) Counsel for property owners whose lands are located on the north side of Centre St, between New Westminster Dr and Dufferin St. It appears to their client that the analysis being undertaken is still defective in that it fails to recognize and implement the policies set out in City of Vaughan OPA 672. In particular, policies numbered 8 and 9 in that OPA. The lawyers would appreciate specific acknowledgement of their client's concerns and a specific response indicating how the Proponent will address them. The following are the excerpts from the City of Vaughan OPA 672: <i>OPA 672 – Section 8</i> notes that amending OPA#210, Section 2.2.3.6, General Commercial Areas, by adding the following paragraph to	a) As shown on Figure 9-35 of the EA report, a full movement intersection (signalized) has been shown conceptually providing access to the lands north of Centre St between Vaughan Blvd and New Westminster Dr. As noted on Figure 9-35, the final location of the full movement intersection will be determined during detailed design [1] and in consultation with affected property owners. [2]	York Region	Status – [1,2] Ongoing Status – [2] Future Work [1] Design of the access to the lands is ongoing [2] Consultation with property owners is ongoing.		Yes	[1,2] AC	Item [1,2]: It is accepted that this is ongoing.

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			subsection b): "Council consideration should be given to broadening the permitted retail and service commercial uses within an implementing zoning by-law and definitions to allow a greater range of commercial uses which reflect evolving consumer needs without imposing negative impacts on neighbouring residential areas." OPA 672 – Section 9 notes that amending OPA#210, Section 2.3.6 by adding the following paragraph: "That the Region of York recognize the importance of maintaining full movement access to the existing commercial centres on the north side of Centre St between Vaughan Blvd and New Westminster Dr, and reflect this in the planning for any transit facilities in the Centre St Corridor between Bathurst and Dufferin St."							
	Mr. Lloyd Helferty	3	<p>a) The entire length of the proposed transitway should include, for both environmental and health reasons, the accommodation of additional space along the transitway corridor for safe and "continuous" passage of non-motorized vehicles, particularly bicycles, foot traffic and other human-powered or small-capacity vehicles (e.g. scooters or segways). The path would be a positive environmental benefit to the users of the traffic corridor because the users of the transit corridor could choose, on those days which have appropriate weather for alternate modes of travel, to safely use a pathway instead of a private vehicle or public transit (which itself uses internal combustion technology and is beneficial in reducing emissions but does not eliminate them). A pathway along the transit route could significantly reduce both the traffic congestion along the corridor as well as reducing the emissions that would otherwise have resulted from elimination of the use of an additional vehicle on the road. "Continuous" meaning the pathway should not be broken along any section because of incompleteness or obstruction (such as highway bridges), and should allow the passage of small/light vehicles without the users of such a path having to resort to simultaneous use of the</p>	<p>a) Detailed comment noted and will be carried forward for consideration during development of the detailed streetscape plan (Section 9.1.1 of the EA report describes the conceptual streetscape plan). As identified on Figures 9.1-2 to 9.1-10, a 2.0 m sidewalk is proposed along each side of the transitway/road corridor for pedestrians [1]. As shown on Figures 13.9-3 to 13.9-5, a 3.0 m bicycle path is proposed from Warden Ave to east of Sciberras Rd [2] and has been developed in consultation with the local municipality. The local municipality has jurisdiction over bike paths. At the time of detailed streetscape design, York Region will continue to work with local municipalities to incorporate additional streetscape facilities and bicycle access to stations where feasible.</p>	York Region	<p>Status – [1] Ongoing Status - [2] Does not apply to the H2 West or H2 East segments</p> <p>[1] Preparation of 90% Streetscape Plans is currently underway and includes sidewalks. Also raised bike lanes that are curb separated from the planting/furnishing zone and sidewalk are being incorporated into the Final Streetscape Plans.</p>		Yes	[1,2] AC	Item [1] It is accepted that this is ongoing. Item [2]: It is accepted that it does not apply to the H2 West or H2 East segments. Item [2] is closed

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			same roadway as heavy vehicles.							
	Mr. James Puddy	4	a) Mr. Puddy mailed letters concerning the meetings at Markville on September 19, 2003 and September 17, 2004 and had no replies. He went to the Markham Town Centre to review the EA report and noticed that there were eighty replies from the total of twelve meetings and did not see his letter of September 19, 2003, although his letter of September 17, 2004 was recorded. The following are his comments on the EA report:	a) It appears that the Rapid Transit Program Office inadvertently omitted to acknowledge receipt of Mr. Puddy's letters and respond to the comments contained in them. However, the comments were taken into consideration in evaluating alternatives and developing the preferred design for the undertaking. The responses below indicate how his comments were addressed in the EA report.	York Region	Status- No Action Required		Yes	Closed (2015)	
			b) The transit lane should be in the curb lanes with the transit stops at the far side of the traffic control intersections.	b) Curb side transit lanes were considered in the EA report (refer to Section 5.4.1, Alternative Locations within a Road r.o.w.). Table 5.4-1 provides an evaluation of the alternative locations for the transit lanes, with a median transitway identified as the preferred location. The typical station layout includes far side stops at intersections with traffic and pedestrian control signals (refer to Figure 7.3-1).		Status- No Action Required		Yes	Closed (2015)	
		4 cont'd	c) The transit lanes should run straight along the corridor with a subway or overpass at the GO crossing and not detoured up and down to the GO station where the trains operate approximately two hours each direction on working days.	c) Alternative routes and alignments were considered and evaluated in the EA (refer to Section 5.3.1, Analysis and Evaluation of Alternative Technology/Route Combinations and Section 8.3, Development of Segment Alignment Alternatives). In addition to inter-connectivity with GO Rail services, the routing selected serves the planned mixed-use Markham Centre where significant transit-supportive development is planned.		Status- No Action Required		Yes	Closed (2015)	
			d) The raised transit lanes will separate the corridor into a north and south side of the community requiring at each traffic control intersection numerous traffic light functions such as through, right, left and U-turns.	d) As noted in Section 9.1.1 of the EA, a streetscape concept has been developed in consultation with local municipalities to be a catalyst for transit-oriented development and attract transit ridership by creating a pedestrian friendly environment. The effect on traffic operations was considered in the evaluation of options to locate a transitway in a roadway (refer to Table 5.4-1) and the analysis of traffic conditions during operation of the transit service (refer to Chapter 10). In addition, traffic operations will be monitored during rapid transit operations as noted in Table 11.4-2.		Status- No Action Required		Yes	Closed (2015)	
			e) Comments b through d will increase gridlock, pollution, safety and will affect the community environment (surroundings).	e) Environmental criteria for assessing the effects of the undertaking on congestion, pollution and safety are included in Section 10.4 - Analysis of Environmental Effects and Mitigation, of the EA report.		Status- No Action Required		Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			<i>Comments from PCC#4, September 17, 2004</i> f) Mr. Puddy spoke to a representative of Lynton Erskine at the Markville Mall presentation on September 17, 2004. He does not consider the present plan will enhance the quality of life in the Hwy 7 Corridor.	f) Protecting and enhancing the social environment in the corridor was a key objective in the development of the undertaking (refer to Chapter 1 and Chapter 10, Table 10.4-2).		Status- No Action Required		Yes	Closed (2015)	
			g) The transit lanes should be in the curb lane of Hwy 7 corridor with stops at the far side of intersections.	g) Curb side transit lanes were considered in the EA report (refer to Section 5.4.1, Alternative Locations within a Road r.o.w.). Table 5.4-1 provides an evaluation of the alternative locations for the transit lanes, with a median transitway identified as the preferred location. The typical station layout includes far side stops at intersections with traffic and pedestrian control signals (refer to Figure 7.3-1).		Status- No Action Required		Yes	Closed (2015)	
			h) The level crossing on Hwy 7 in Unionville should have an underpass allowing safe passage for GO trains and Hwy 7 traffic which was done at Finch Ave, west of Leslie St.	h) Comment noted. Refer to Figure 9-63 of the EA report which shows a proposed underpass for the transitway crossing of the GO Stouffville line.		Status- No Action Required		Yes	Closed (2015)	
		4 cont'd	i) The transit line in the middle of Hwy 7 corridor with its left and U-turns at intersections are not safe and convenient for pedestrians or vehicles contributing to gridlock and pollution. The transit line should not be detoured off the Hwy 7 corridor to the GO station for four trains each way on working days.	i) Refer to responses c and d above.		Status- No Action Required		Yes	Closed (2015)	
			j) The primary purpose of what used to be a provincial highway was for the movement of goods, people and services and should be the main function of the arterial road serving a commercial area.	j) The purpose of the undertaking is presented in Section 1.2.2 of the EA report. The existing Social Environment is described in Section 6.3 and includes a wide range of adjacent land uses.		Status- No Action Required		Yes	Closed (2015)	
			<i>Comments from PCC#3, September 19, 2003</i> k) The preferred plan for enhancing the quality of life in the Hwy 7 corridor is similar to the Spadina Ave transit in Toronto and Mr. Puddy does not consider that the Toronto system meets any of our criteria for the proposed plan.	k) Comment noted. Analysis and Evaluation of Alternatives to the Undertaking is provided in Chapter 3 of the EA report.		Status- No Action Required		Yes	Closed (2015)	
			l) Mr. Puddy suggests that the preferred plan for all purposes would be better located in either the hydro or 407 corridors.	l) Alternative alignments (including Hwy 407 and sections of hydro corridors) were considered in the EA (refer to Section 5.1, Rapid Transit Corridors).		Status- No Action Required		Yes	Closed (2015)	
			m) The rapid transit line in the centre of the Hwy 7 corridor would not contribute to the safety and convenience of pedestrians or other users. The detouring of the transit line off the corridor to connect with the GO station for only 10 trains on working days.	m) Alternative alignments (including Hwy 407 and sections of hydro corridors) were considered in the EA (refer to Section 5.1, Rapid Transit Corridors).		Status- No Action Required		Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			n) The transit line should be built in the curb lanes and an underpass built at the Hwy 7 corridor and the G level crossing which would allow passengers to transfer to the GO trains and provide a safe Hwy 7 corridor by eliminating a level crossing.	n) Alternative alignments (including Hwy 407 and sections of hydro corridors) were considered in the EA (refer to Section 5.1, Rapid Transit Corridors).		Status- No Action Required		Yes	Closed (2015)	
	Ms. Gloria Boxen	5	a) Ms. Boxen welcomes the Region's decision to improve transit but is concerned about the Region's inability to address land use planning where it works against good transit and community development and when it doesn't dare to hope that people will get out of their cars and walk.	a) Approval of site plan development is a local municipal jurisdiction and subject to the Ontario Planning Act, as well as conformance with land use as provided in the York Region Official Plan. The Region is also undertaking a Centres and Corridors Study to facilitate development of both the Regional Centres and Corridors with more intensive development supporting transit ridership (the Region's planning initiatives are briefly described in Section 12.1.1 of the EA report).	York Region	Status- No Action Required		Yes	Closed (2015)	
			b) The evaluation and comments provided are based on the following principles: 1) Efficient use of resources, existing infrastructure, land, energy, and most direct route to service the most people and destinations, with least environmental impacts; 2) Promotes health, reduces air, water and soil pollution by reducing the use and need for private vehicles, and promotes walking and cycling; 3) Other environmental concerns – Decreases the need for paved and other impervious surfaces and reduces flood potential. Increases vegetation to reduce runoff, provide shade, filter pollutants, and absorb CO2. reduces greenhouse gas emissions and moderated the effects of climate change; 4) Promotes community health – stops and terminals are located near centres of activity. Accessible to all residents in geographical sense and to those with physical handicaps. Inclusive of residents regardless of age and economical status; and 5) Convenience.	b) Comment noted. Many of the factors noted here have been included throughout the EA (Chapter 5 - Alternative Methods of Improving Public Transit, Chapter 7 – Planning and Design Parameters, Chapter 8 – Development and Selection of Preferred Design, and Chapter 10 – Assessment of the Undertaking).		Status- No Action Required		Yes	Closed (2015)	
		5 cont'd	<i>Current Events</i> c) Ms. Boxen presumes that the study does not include the impacts of the construction of the additional lanes on Hwy 407 in the central portion that are exempt from environmental assessment. These impacts should be added to those calculated for any added lanes to Hwy 7.	c) The widening of Hwy 407 is not included as part of the proposed undertaking and not under the jurisdiction of York Region.		Status- No Action Required		Yes	Closed (2015)	
			d) Does the study take into account today's world? The world has changed since the study commenced. Gas prices have gone from cheap to	d) Comment noted. The undertaking will have a positive effect on improving mobility as noted in Table 10.4-1 of the EA report.		Status – No action required		Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
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			a point where people are actively looking for other means of transportation such as walking and cycling, as well as transit.							
			e) Price volatility has mirrored the weather's volatility. Scientists have predicted the weather extremes and severity would increase with increased greenhouse gases and climate change.	e) Comment noted. As noted in Table 10.4-3 of the EA report, the recommended undertaking will have a net positive effect on local and Regional Air Quality.		e) Status – No action required		Yes	Closed (2015)	
			f) Decreasing the permeable surfaces through increased road pavement and loss of greenspace helps to increase the risk of flooding. If we are to implement infrastructure changes to accommodate rapid transit, they must be taken from existing paved surfaces or be in the form of rail. In August there was local flooding in basements in Thornhill and North York. Finch Avenue near Jane Street was washed out at Black Creek. Look again at the calculated impacts of increased river crossings and determine if they are realistic in view of what happened in August.	f) Comment noted. As noted in Table 11.3-1 (I.D. #5.1) of the EA report, the Proponent will develop a detailed storm water management plan during the detailed design phase of the proposed undertaking [1].		f) Status – Ongoing A detailed hydrologic analysis was conducted to calculate pre- and post-development conditions flow at various crossing locations. The analysis indicated that the quantity of runoff from the improved section of the roadway will not result in a significant increase in runoff, and as such, specific techniques to reduce the quantity and rate of runoff were not considered (Appendix D). The preliminary stormwater management plan is provided in the Drainage Design Report.	Drainage Design Report for vivaNext H2-West and H2-East - September 13, 2016 (ID#19)	Yes	[1] EF	Item [1]: Document ID#19 supports the assertion regarding SMP development is ongoing.
		5 cont'd	<i>Road Capacity</i> g) Four lanes of road at capacity is not a signal to add additional lanes of road. Rather they are an indicator for increasing road efficiency by adding more public transit, separated bike lanes and sheltered sidewalks. This is the point at which travel demand is high enough to support these alternative modes of transportation and opportunity to reduce car dependency. If instead road capacity is increased by adding more lanes, induced traffic demand results as it becomes initially easier to drive to further destinations, perhaps permanently changing travel patterns. Time, not distance, determines how far we go. If travel distances double, traffic volumes double. The above principles are achieved by focusing on people, not cars and to move people and goods, not cars and trucks.	g) Comment noted. The recommended undertaking is predominately transit related infrastructure (as described in Chapters 9 and 12 of the EA report). Proposed road widening from Lunar Crescent (east of Woodbine Ave) to east of Sciberras Rd is presented in Chapter 13 of the EA report. The Region's Transportation Master Plan (June 2002) includes a multi-modal strategy for dealing with travel demand in York Region to 2031, including significant planned transit infrastructure as well as road improvements.		g) Status - No Action Required		Yes	Closed (2015)	

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			<i>Infrastructure</i> h) First build infrastructure that promotes convenience and safety for pedestrians and cyclists. Provide covered, separated bikeways and sidewalks along major arteries to allow the option of walking and cycling for commuting and doing errands. Provide covered bike lockers for bicycle storage near transit stations and bike racks on transit.	h) Safety and convenient access/mobility were important criteria used in the development of the undertaking (see Tables 10.4-2 and 10.4-4 of the EA report). Figures 9.1-2 to 9.1-10 present typical cross-sections for the transitway that include pedestrian sidewalks on each side of the r.o.w. A conceptual streetscape plan is described in Section 9.1.1 – Transitway Elements. During the development of a detailed streetscape plan and transit station design, specific features such as bicycle storage will be considered.[1-3]		h) Status – Ongoing Preparation of 90% Streetscape Plans is currently underway and raised bike lanes that are curb separated from the planting/furnishing zone and sidewalk are being incorporated.		Yes	[1] AC	Item [1]: It is accepted that development is ongoing.
			<i>Land Use and Development</i> i) Reducing of car use and dependency is achieved through land use that promotes walking and cycling. Compact, mixed-use development reduces car needs. Six to ten lanes of traffic and buildings opening onto parking lots rather than streets works against reducing car dependency and safety for pedestrians and cyclists. Researchers are examining the connection between community design, physical exercise and transit use, and are finding that pedestrian friendly environments promote walking and the use of transit. Examine land use and transportation through the eyes of children.	i) As described in Section 9.1.1 – Transitway Elements, a streetscape plan has been developed for the transitway that would be a catalyst for transit-oriented development and attract transit ridership. In addition, as described in Section 12.1.1, York Region is undertaking a number of land use planning initiatives to facilitate development of both the Regional Centres and Corridors with more intensive development supporting transit ridership.		i) Status – Ongoing Preparation of 90% Streetscape Plans is currently underway and raised bike lanes that are curb separated from the planting/furnishing zone and sidewalk are being incorporated.		Yes	[1] AC	Item [1]: It is accepted that development is ongoing.
		5 cont'd	<i>Conclusion</i> j) Expensive infrastructure for rapid transit is unnecessary to get people out of cars and onto buses. For example, the Yonge GO Bus has been well used for decades. When high demand transit established, then concentrate on rapid transit with its own r.o.w. Transit is well used when there is connectivity to the surrounding community. Unless it is a subway, transit on its own r.o.w. is isolating. With people now actively looking for options to driving, it is an opportune time to present residents with a convenient system of public transit that provides excellent service.	j) The analysis and evaluation of Alternatives to the Undertaking is presented in Chapter 3 of the EA report and includes consideration of local transit service improvements and GO Transit improvements. York Region Rapid Transit Corridor Initiatives was selected as the preferred alternative as described in Table 3.2-1 of the EA report.		j) Status - No Action Required		Yes	Closed (2015)	
			<i>Recommendation</i> k) It is imperative that we reduce pollution and car use in the GTA for health and safety of our children and unborn grandchildren. Change the streetscape first. Along Hwy 7, add continuous sidewalks and separated, covered bike paths, street-facing buildings with bike racks, litter receptacles, shade	k) Chapter 1 of the EA report sets out the fundamental objectives of the undertaking which encompass many of the recommendations of Ms Boxen. As described in Chapter 9, the recommended undertaking includes a streetscape plan that will attract transit ridership within a pedestrian friendly		k) Status – No action required Preparation of 90% Streetscape Plans is currently underway.		Yes	[1] AC	Item [1]: It is accepted that development is ongoing.

Appendix 3 Action for comments received from the Public on the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements					Compliance Monitoring			Compliance Review (MMM)		
Representative	Name	#	Comment	Response	Responsible Agency / Person	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Result		
			trees and benches. The lanes are too wide – they encourage speeding. Take the room for the bike lanes from the existing roadways. Place a tree median down the centre of Hwy 7. Once transit ridership is sufficiently high, examine other infrastructure changes. Implement changes with little disruption of the environment as possible. Perhaps, opportunities for environmental rehabilitation will emerge. Examine Portland Oregon's rapid transit system. It goes from being on its own surface r.o.w. in the suburbs, to a subway, to a system in mixed traffic stopping at ordinary street corners, to a track on its own city street. It is connected in the city to the street and pedestrians.	corridor. As noted in Table 10.4-3, the recommended undertaking will have a net positive effect on local and Regional Air Quality. The expected environmental effects and mitigation are identified in Tables 10.4-1 to 10.4-4 in the EA report.						
			<i>Other comments</i> l) When rapid transit is implemented on Hwy 7, there should still be a good local Hwy 7 bus service accessible to all residents. For example, there should be stops at Hunter's Point, west of Yonge St and Silver Linden, east of Yonge St.	l) Detailed comment noted. As noted in Table 10.4-1, compatibility with proposed local transit network will be monitored.		Status - No Action Required		Yes	Closed (2015)	
		5 cont'd	m) Parking at the Bathurst connection ramp represents the loss of more pervious surface close to the East Don River. A good transit system should require only as bare minimum of commuter parking	m) The bus platforms and parking facilities (shown on Figure 9-40) at the Bathurst St Connector Rd are identified as future 407 Transitway Facilities and are not part of the recommended undertaking. These facilities will be planned and assessed under a future EA for that undertaking.		Status - No Action Required		Yes	Closed (2015)	
			n) Vaughan Link to Spadina Subway – ensure that Black Creek is minimally avoided, keeping in mind the August flooding.	n) Minimizing adverse effects on aquatic ecosystems is included in the assessment Table 12.6-3 (Goal C1) in the EA report.		Status – No Action Required The Spadina Subway Extension is the subject of a separate CMP.		Yes	Closed (2015)	

Appendix 4 Cedarland Alignment Modification Report – Table 6-1: Effects and Mitigation for the Modified Alignment																		
GOALS	Environmental Value / Criterion	Environmental Issues/Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation			Level of Significance after Mitigation	Monitoring and Recommendation	Compliance Monitoring			Compliance Review		
			P	C	O			Built-In Positive Attributes and/or Mitigation	Potential Residual Effects	Further Mitigation			Responsible Person / Agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
OBJECTIVE B: To protect and enhance the social environment in the corridor																		
B1	Maintain or improve road traffic and pedestrian circulation	SB Warden Avenue access to IBM facility.			✓	Warden Avenue/IBM Access	The preferred rapid transit design will restrict right turn access at this location.	SB vehicles on Warden Avenue will turn right onto Cedarland Dr. and make a WB left turn at the Cedarland Dr./Town Centre Blvd intersection which will permit access to the IBM property	None expected	None necessary	Insignificant	None required	York Region	Status- Does not apply to the H2-West or H2-Easts segment		Yes	Closed (2015)	
OBJECTIVE C: To protect and enhance the natural environment in the corridor																		
C1	Minimize adverse effects on aquatic ecosystems	Loss of site-specific habitat.		✓		Rouge River	Potential loss of fish habitat as a result of bridge widening may include long term impact, loss of riparian habitat, and decrease in habitat productivity.	In-water work will probably be required but will be limited as much as possible. Minimize the area of in-water alteration to the extent possible. Follow in-water construction timing restriction. Perform all in-water work in the dry using a temporary flow bypass system.	May include loss of riparian habitat and decrease in habitat productivity	Negotiations with regulatory agencies during detailed design to mitigate and / or compensate for the harmful alteration of fish habitat.	Insignificant	On-site environmental inspection during in-water work. Post-construction monitoring of fish habitat compensation measures. In-water work will be monitored and/or compensated if necessary.	York Region	Status- Does not apply to the H2-West or H2-Easts segment		Yes	Closed (2015)	
C2	Minimize adverse effects on terrestrial ecosystems	Loss of wildlife habitat, riparian habitat and ecological functions		✓	✓	Rouge River	Widening of the bridge will result in the removal of vegetation and ecological functions it supports. A decrease in habitat area may occur.	Minimize the area of vegetation removals to the extent possible. Minimize grade changes to the extent possible. Use close cut clearing and trimming to minimize the number of trees to be removed. Delineate work	May result in a decrease in habitat area.	Restore natural areas disturbed using construction with native vegetation, where feasible. Replace ornamental vegetation as part of	Negligible	None required.	York Region	Status- Does not apply to the H2-West or H2-Easts segment		Yes	Closed (2015)	

Appendix 4 Cedarland Alignment Modification Report – Table 6-1: Effects and Mitigation for the Modified Alignment																		
GOALS	Environmental Value / Criterion	Environmental Issues/Concerns	Project Phase ¹			Location	Potential Environmental Effects	Proposed Mitigation			Level of Significance after Mitigation	Monitoring and Recommendation	Compliance Monitoring			Compliance Review		
			P	C	O			Built-In Positive Attributes and/or Mitigation	Potential Residual Effects	Further Mitigation			Responsible Person / Agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
							zones using construction fencing/tree protection barrier. Protect trees within the clear zone using guiderail, curbs, etc. to prevent removal.		landscaping. Identify as well as restore plantings that will be needed to improve woody riparian cover to mitigate / compensate for any losses. A 3:1 tree replacement ratio will be followed if trees are removed.									

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
Toronto and Region Conservation Authority	June Murphy, Planner II Environmental Assessments	1	Edits	a) Minutes have been modified as requested.	York Region	a) to f): Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			a) Modify the November 14, 2007, minutes to include the following statement: "TRCA Hydrology staff expressed concern for potential groundwater issues involving the subsurface conditions for the new bridge abutments and possible groundwater control concerns".	b) Minutes have been modified as requested.				Yes	Closed (2015)	
			b) Change the spelling of Lesley to Leslie Piercey.	c) Revised digital copy of the November 14, 2007 minutes will be provided to June Murphy.				Yes	Closed (2015)	
			c) Submit a revised digital copy of the November 14, 2007 minutes to jmurphy@trca.on.ca .	d) Minutes have been modified as requested.				Yes	Closed (2015)	
			d) Modify the December 14, 2007 minutes to change the spelling of Lesley to Leslie Piercey.	e) e) Revised digital copy of the December 14, 2007 minutes will be provided to June Murphy.				Yes	Closed (2015)	
			e) Submit a revised digital copy of the December 14, 2007 minutes to jmurphy@trca.on.ca .	f) f) Both the revised November 14, 2007 and December 14, 2007 minutes are included in Appendix 2 of the Cedarland Alignment Modification Report.				Yes	Closed (2015)	
		2	Hydrogeology Comment	a) Comment noted.	York Region	a) to e): Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		a) Both option alignments (Alts. M-1 and M-2) eventually cross the Rouge River using the existing Warden Avenue Bridge.	b) Comment noted.	Yes				Closed (2015)		
		b) To accomplish either option requires an extension to the west side of the present bridge structure.	c) Comment noted.	Yes				Closed (2015)		
		c) No conceptual details were included in the Modification Report relative to proposed bridge abutment/foundation elevations and current groundwater conditions.	d) Preliminary geotechnical / hydrogeological information will be included in the TRCA pre-permit approval application by the Proponent during detail design.	Yes				Closed (2015)		
		Action Required	e) Comment noted.	Yes				Closed (2015)		
		d) As per the previous hydrogeological comments when the bridge extension has been determined, provide preliminary geotechnical/hydrogeological information relative to dewatering/depressurization needs for abutment construction.								
			e) In regards to groundwater impacts due to construction and operation of either alternative, both are of equal ranking – one is not more favourable than another.				Yes	Closed (2015)		
		3	Geotechnical Engineering Comment	a) Comment noted. Detailed geotechnical reports will be distributed to TRCA during detail design.	York Region	a) Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			a) There are no outstanding geotechnical engineering issues at this stage of the proposal.							

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
						Cedarland Alignment Modification is in the H3 Segment				
		4	Ecology Comment a) The proposed change to the alignment along Cedarland Drive/Warden Avenue is generally acceptable from an ecological perspective, however there are a number of edits in the report that should be corrected as noted.	a) Comment noted.	York Region	a) Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		5	Ecology-natural areas – Page 5 Comment a) Page 5 of the report states that “there are no designated natural areas within the area considered for modified alignment alternatives...”	a) a) The statement has been deleted from the report.	York Region	a) to f): Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			b) This is not accurate as the area is identified as part of TRCA’s Terrestrial Natural Heritage System, and the area presently supports existing natural cover, including remnant woodlands and meadow areas within the valley corridor immediately adjacent to Warden Avenue.	b) A modified statement has been incorporated in the report.				Yes	Closed (2015)	
			Action Required c) This section needs to be revised to more fully describe the existing natural environment.	c) A summary of Ecological Land Classification Vegetation Communities within the Alignment Modification Area has been added. If required, further information will be provided as part of TRCA pre-permit approval submitted during detail design.				Yes	Closed (2015)	
			d) It would be correct to state that there are no Environmentally Sensitive Areas, Areas of Natural and Scientific Interest, Provincially Significant Wetlands, Locally Significant Wetlands or other Provincially or Federally designated natural areas (as it relates to the Provincial Policy Statement within the modified alignment area).	d) Corrected statement included in the report.				Yes	Closed (2015)	
			e) However, the importance of the remnant natural, successional processes and wildlife within this reach of the system.	e) Comment noted.				Yes	Closed (2015)	
			f) Identify the location of the remnant natural areas that are present and include them on page 5.	f) A summary of Ecological Land Classification Vegetation Communities within the Alignment Modification Area has been added. If required, further information will be provided as part of TRCA pre-permit approval submitted during detail design.				Yes	Closed (2015)	
		6	Ecology-Bridge Span – Page 6 Comment a) a) On page 6 the bridge size is incorrectly stated.	a) / b) Comment noted.	York Region	a) to c): Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			b) The span/width of bridge (over the watercourse) is 15m.					Yes	Closed (2015)	
			Action Required c) Modify the text to change the span/width to 15m.	c) The text has been modified as noted.				Yes	Closed (2015)	
		7	Ecology – matching to aerial photo – Figure 4-2, page 12 Action Required a) Modify page 12, Figure 4-2 to match alignments M1 and M2 with the road patterns on the aerial photograph (i.e. Highway 7 is off, Town Centre Boulevard is off, Cedarland Drive is off).	a) Figure 4-2 has been corrected.	York Region	a) to d): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			b) Label the roads at their appropriate locations.	b) Labels amended as noted to Figure 4-2.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) Label the Rouge River watercourse in its appropriate location.	c) Label added to Figure 4-2.				Yes	Closed (2015)	
			d) Label the IBM flyover.	d) Label added to Figure 4-2.				Yes	Closed (2015)	
		8	Ecology-environmental impacts of crossings – page 14 Comments a) On Page 14 the last paragraph states, “in addition, the modified (Cedarland/Warden/Enterprise) alignment reduces the potential environmental impact on the Rouge Valley by eliminating the separate crossing in the original EA and consolidating the crossing with the existing Warden Avenue bridge.	a) a) Comment noted. TRCA will be consulted during detail design regarding mitigation including improvements to adjacent riparian habitats.	York Region	a) to d): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			b) Ecology staff is not in 100% agreement since the existing crossing at Warden Avenue does not support terrestrial passage at present, and will result in a loss of approximately another 20m of riparian habitat with the proposed extension.	b) Comment noted. TRCA will be consulted during detail design regarding mitigation including improvements to adjacent riparian habitats.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) Ecology staff suggests that the ecological impacts may be neutral, as a “new crossing on the Rouge would have been appropriately sized”.	c) Comment noted.				Yes	Closed (2015)	
			d) However, TRCA staff has agreed in principle with the Warden Avenue bridge extension and will work with the proponent to mitigate impacts during detailed design and construction and will seek to have adjacent riparian habitats improved as mitigation/compensation.	d) Comment noted. TRCA will be consulted during detail design regarding mitigation including improvements to adjacent riparian habitats.				Yes	Closed (2015)	
		9	Details on Impacts – Figures 5-1 and 5-2, pages 15 and 16 Action Required a) In the report include on Figures 5-1 and 5-2 the 100m long x12m wide edge of Cedarland woodlot as mentioned in Table 4-1 which will be impacted.	a) Impact on the Cedarland woodlot has been highlighted with a note on Figure 5-1.	York Region	a) to e): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			b) In the report include on Figures 5-1 and 5-2 the 150m long and 15m wide strip of Rouge River floodplain land as mentioned in Table 4-1 which will be impacted.	b) The strip of Rouge River floodplain that will be impacted has been highlighted with a note on Figure 5-2.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) Add TRCA’s Regulation Limit and Regional Storm Floodplain to the figures.	c) “Regulatory Flood Line (As per TRCA Flood Plain Mapping Approved 2007-01-05)” has been added to Figures 5-1 and 5-2.				Yes	Closed (2015)	
		9 cont'd	d) Add TRCA’s Regulation Line (blue) to the legend on Figures 5-1 and 5-2.	d) “Regulatory Flood Line (As per TRCA Flood Plain Mapping Approved 2007-01-05)” (blue) has been added to the legend.				Yes	Closed (2015)	
			e) Modify the report to describe the impacts to the Cedarland woodlot and the floodplain.	e) This information will be provided as part of				Yes	Closed	

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
				TRCA pre-permit approval submitted during detail design.					(2015)	
		10	Ecology-Assessment – Table 6-1, page 20 Action Required a) As there is no intention to span the meander belt or 100-year erosion limit with the Warden Avenue Bridge extension this table needs to be revised to include mitigation efforts to minimize the bridge extension and fill requirements to the extent possible.	a) Mitigation efforts to minimize potential environmental effects of the bridge widening and fill requirements will be identified and provided as part of TRCA pre-permit approval submitted during detail design.	York Region	a) Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			Comments b) TRCA Ecology staff disagrees with the assessment there will be no "potential residual effects".	b) Comment noted.		b) to l) Status – Does not apply to the H2-West or H2-East Segment		Yes	Closed (2015)	
			c) As noted previously, there will be a minimum loss of 10m riparian habitat (10m of both banks) as well as a loss in productivity associated with the length of river under the solid bridge structure.	c) Comment noted.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			Action Required d) Modify Table 6-1 to reflect the loss of riparian habitat.	d) Loss of riparian habitat has been added to goal C2 in Table 6-1.				Yes	Closed (2015)	
			e) Modify the two blocks under "potential residual effects" to state the impacts (aquatic losses for example, may include long term impact, loss of riparian habitat, and decrease in habitat productivity. Terrestrial losses for example may include decrease in habitat area).	e) The examples as noted have been added to goals C1 and C2 in Table 6-1.				Yes	Closed (2015)	
			f) Change "widening of the bridge may..." to "will"...result.	f) Comment noted and change made to Table 6-1.				Yes	Closed (2015)	
			g) Change "span meander belt of 100 year erosion limit of the watercourse" ...to what the project entails, a bridge extension.	g) Comment noted and change made to Table 6-1.				Yes	Closed (2015)	
			h) Change "avoid in water work to the extent possible" to identify that the extension will probably involve in water work.	h) Comment noted and change made to Table 6-1.				Yes	Closed (2015)	
			i) Modify Table 6-1 to indicate that these impacts will need to be mitigated and/or compensated.	i) Table 6-1 modified as noted.				Yes	Closed (2015)	
			j) Modify Table 6-1 in the "further mitigation" column to ensure that a minimum 3:1 tree replacement ratio will be identified for tree removals that may be necessary.	j) Comment noted and change made to Table 6-1.				Yes	Closed (2015)	
			k) Identify as well as any restoration plantings that will be needed to improve woody riparian cover to compensate for any losses.	k) Table 6-1 modified as noted.				Yes	Closed (2015)	
			l) Identify what P. C. O represent under Project Phase.	l) Comment noted and identification of P C and O added to the bottom of Table 6-1.				Yes	Closed (2015)	
		11	Engineering: Comments a) With regards to the two alternatives presented, M-1 and M-2, both are equally acceptable from the engineering/floodplain management perspective, as they both proceed along Warden Avenue south of Cedarland Drive.	a) Comment noted.	York Region	a) to d): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
		11 cont'd	b) As discussed during our various meetings with the proponents on the bridge at Warden Avenue, no other improvements are planned for the bridge except for an extension to carry the transitway.	b) Comment noted.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) Therefore, flood levels and flow mechanics are anticipated to remain unchanged.	c) Comment noted.				Yes	Closed	

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			Action Required d) However, the proponent will need to provide all the necessary updates to the HEC-RAS model to confirm that the final design of the proposed extension will have no negative implications to flooding either upstream or downstream, at the detailed design stage.	d) The HEC-RAS model will be updated and provided to TRCA during the detailed design stage.				Yes	(2015) Closed (2015)	
		12	Modifications – Aerial Photograph-Top of Bank and 10m Setback Comments a) TRCA staff conducted a site visit on the Northwest quadrant of Enterprise Drive and Warden Avenue, just south of the Warden Avenue Bridge with MMM staff on March 10, 2008.	a) to h) Comments noted.	York Region	a) to n): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
			b) The objective was to review the 10m setback from the top of bank line.			Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) An aerial photograph dated January 23, 2008 prepared by MMM was utilized as well as the top of bank stakes in the field installed by MMM staff.					Yes	Closed (2015)	
			d) From the site visit a top of bank line/tree drip line was confirmed in the field by TRCA on the west bank of the valley approximately running from the parking lot north of Enterprise extension, northwards to the east-west orientation of the Regional Floodline.					Yes	Closed (2015)	
			e) From the site visit it was determined that the new 10m setback from the new top of bank line/tree drip line needed to be updated on the aerial photo.					Yes	Closed (2015)	
			f) MMM resubmitted a revised aerial photograph on March 26, 2008 with a revised 10 m setback.					Yes	Closed (2015)	
			g) The location of the Regional Storm Floodline as depicted on the March 26, 2008 aerial photograph compared to mapping in the TRCA office and is satisfactory.					Yes	Closed (2015)	
			h) The location of the red top of bank/drip line immediately east of the Regional Floodplain Line is satisfactory.					Yes	Closed (2015)	
			Action Required i) Modify the legend to change "Fill Regulation Line" to "Regulation Line"	i) The legend has been modified as requested.				Yes	Closed (2015)	
			j) Change "Regulatory" to "Regional Storm Floodline".	j) The wording has been changed as requested.				Yes	Closed (2015)	
			k) Modify the legend to make the line width for the "Regulation Line" bolder.	k) The legend has been modified as requested.				Yes	Closed (2015)	
			l) Revisit the "Regulation Line" on the aerial photograph and include it on the north and south sides of the Regional Floodplain.	l) The figure has been updated as requested.			Yes	Closed (2015)		
		12 cont'd	m) Modify the aerial photo to add this note beside the top of bank line north of the east-west orientation of the floodline. (Note: The Top of Bank line north of the Regional Floodline was not confirmed by TRCA staff since this top of bank area is within the Regional Floodline and the 10m setback is calculated from the greater of the hazard.)	m) As requested the note has been added to the figure.			Yes	Closed (2015)		
			n) Modify the legend to add top of bank/tree drip line and send a final digital copy to jmurphy@trca.on.ca .	n) The legend has been modified as requested and the final digital copy will be sent to June Murphy.			Yes	Closed (2015)		
		13	Engineering Hydraulics-Cover Letter and Memo re. Hydraulics of Bridge Widening Comments a) The York Consortium Report summarized previous discussions with TRCA staff and	a) Comment noted. Consultation was included in Appendix 2 of the Report.	York Region	a) to g): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			also provided supporting analyses resulting from investigating the various alternatives to replacing or extending the Warden Avenue Bridge at the Rouge River south of Highway 7.			Cedarland Alignment Modification is in the H3 Segment				
			b) TRCA engineering staff concurs with the construction constraints identified, and recognizes that the presence of the IBM flyover precludes any significant relief from flooding over Warden Avenue from a crossing replacement, since the analysis shows the roadway low point would be below the Regional water level in the unimpeded condition (without any bridge in place).	b) Comment noted.				Yes	Closed (2015)	
			c) TRCA engineering staff concurs with the short term fix that the existing bridge be extended to accommodate the Bus Rapid Transit lanes.	c) Comment noted.				Yes	Closed (2015)	
			d) TRCA engineering staff concurs with the long term fix that a profile change in Warden Avenue would be required to bring the road outside the floodplain.	d) Comment noted.				Yes	Closed (2015)	
			Action Required e) As per TRCA's policies, staff requires that the proposed bridge extension be designed in order that it will not adversely impact the floodplain, and also requires that the design incorporate an ecological net benefit.	e) TRCA will continue to be consulted during detail design of the bridge.				Yes	Closed (2015)	
			f) For detailed design submit the Notice of Study Completion with the completed "Development, Interference with Wetlands, Alternative to Shorelines and Watercourses" application with the fee, checklist and 6 copies of the drawings for our review.	f) All of the TRCA application requirements will be met during detailed design.				Yes	Closed (2015)	
			g) Should you wish to separate the project into phases, submit 1 application per geographic area.	g) Comment noted.				Yes	Closed (2015)	
		14	Geotechnical: Comments a) There are no Geotechnical Engineering issues with the submissions to date, however, comments will follow in the detail design stage.	a) Comment noted. TRCA will be consulted during detail design phase/	York Region	a) Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		15	Hydrogeology: Comments a) a) Based on the material submitted, the proponent envisages an extension of the western side of the existing bridge structure to accommodate a rapid transit bus lane.	a) Comment noted. The transit lanes will be added to the west side of the existing bridge structure.		a) to g): Status- Does not apply to the H2-West or H2-East segment		Yes	Closed (2015)	
		15 cont'd	b) The submitted documentation focused on scenarios of bridge design and relative surface water flow and surface water back-up behind the specific bridge design.	b) Comment noted.		Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			c) At this time, there are no groundwater issues from the submitted hydraulic report.	c) Comment noted.				Yes	Closed (2015)	
			Action Required: d) During detailed design when the appropriate bridge extension has been determined, provide the preliminary geotechnical/hydrogeological information relative to dewatering/depressurization needs for abutment construction.	d) The preliminary geotechnical/hydrogeological information prepared during detailed design will be provided to TRCA. This will include information related to dewatering and depressurization needs for the construction of the abutment.				Yes	Closed (2015)	
			e) With the submission of the "Development" application, provide 2 copies of the geotechnical/hydrogeological reports.	e) Comment noted. When the Proponent provides TRCA with the application, two				Yes	Closed (2015)	

Appendix 4 Action for comments received on the DRAFT Cedarland Alignment Modification Report: Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment					Compliance Monitoring			Compliance Review		
Representative	Name	#	Comment	Response	Resp. Person/Agency	Status and Description: How commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			f) Provide a summary of the construction of the Warden Avenue Bridge extensions since TRCA staff recalls a groundwater/construction issue during that project.	copies of the reports will be provided. f) The Proponent will review reports from the construction of the Warden Avenue bridge extension and discuss with Peter Cholewa during detail design.				Yes	Closed (2015)	
			g) Contact Peter Cholewa, RMOY, for further details on the recent Warden Avenue Bridge extensions.	g) The Proponent will contact Peter Cholewa as suggested during detail design.				Yes	Closed (2015)	
Ministry of the Environment- Environmental Assessment and Approvals Branch	Shereen Amin, Project Officer, EA Project Coordination	1	Section 1.1 Rephrase first sentence to read "York Region considers the local modification to the alignment to be a significant change from what was approved in the EA. However, York Region has determined that the modification does not alter the net effects of the undertaking and can therefore consider this modification to have neutral environmental effects".	Comment noted and incorporated in Section 1.1.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		2	Page 21, Section 7.0 If possible please include dates when discussions were initiated with the various agencies in review of this modified alignment, as well as, other dates specific to meetings and lists of all stakeholders that were in attendance.	A table of meetings with dates and attendees has been included in Section 7.0 of the report.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		3	Confirmation is also required as to whether any comments were received from any landowners or the general public with respect to this proposed modified alignment. Section 7.5 states that the proposed alignment modification was discussed with affected land owners including H&W Development Corporation; please provide details of how this modification was relayed to the developer in questions and/or any other landowners.	All of the related correspondence to/from the affected landowners is included in Appendix 2 of the report.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	

Appendix 5 Action for comments received on the FINAL Cedarland Alignment Modification Report - Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment (March 2010)					Compliance Monitoring			Compliance Review		
Representative	Name	No.	Comment	Response	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
Ministry of the Environment – Environmental Assessment and Approvals Branch	Solange Desautels Senior Project Coordinator, EA Project Coordination	1	It is assumed that subsequent reports required in the EA would include the Cedarland modification such as air quality assessment; SWM plan; Phase II archaeological report; hydrogeological report, contaminated sites.	Yes. Any subsequent reports associated with project implementation will include the Cedarland alignment modification.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		2	Can you confirm there is no archaeological potential associated with lands around Cedarland Drive, and other items above, etc.?	Stage II archaeological assessment has been recommended in the approved EA, Appendix J.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		3	There are no changes to SWM-same outlet; volumes etc?	A Storm Water Management Preliminary Assessment was provided in Appendix G of the approved EA and describes a SWM Concept Plan by transitway section including the following: 5.2.32 Town Centre Boulevard - Highway 7 to west of Rouge River (Sta. 439+580 to Sta. 440+170) Drainage for this section was provided as part of a drainage master plan for the Clegg Road/Cedarland Drive area. The existing sewer has a direct discharge to the Rouge River. There is an existing storm water pond to the south of the storm outlet that was built after the storm sewer. Due to differences in elevation, the storm sewer outlet could not be included in the pond. The transitway will continue to discharge to the existing storm sewer on Town Centre Boulevard. (Proposed discharge to the existing storm sewer on Town Centre Boulevard from Highway 7 to Cedarland Drive would not change with the Cedarland alignment modification since this segment of the transitway is the same as the original alignment.) 5.2.33 Markham Centre Alignment - Town Centre Boulevard to Warden Avenue (Sta. 540+070 to Sta. 540+450) This alignment crosses the Rouge River floodplain and consists of two 3.5 m wide transit lanes with a 0.5 m shoulder. Rather than a storm sewer system, individual outlets to the vegetated area adjacent to the transitway are proposed for this section. (Since the new alignment is proposed along Cedarland Drive rather than in a new transit only corridor across the Rouge River (see EA figure 9-60), the drainage will likely be into the storm sewer on Cedarland Drive. This would have to be confirmed during development of the detailed Storm Water Management Plan in conjunction with detailed design of the transitway. See detailed response below.)		Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
		4	Does original EA or will SWM plan include these components: A written commitment by the municipality of long-term maintenance/ownership of the Stormwater Management System(s) "Oil and grit separators shall be installed at all strategic locations to intercept stormwater run-offs and washings from stations and intersecting transit sections". "Post construction monitoring shall include regular TSS and heavy metals scan (semi-annual) of the discharged stormwater to	As noted above, a Storm Water Management Preliminary Assessment was provided in Appendix G of the approved EA and describes a SWM Concept Plan by transitway section. The EA (Table 11.3-1 on page 11-2) includes a commitment to develop a detailed Storm Water Management Plan in accordance with MOE's guidelines. The commitment also indicates that the Storm Water Management Plan will outline monitoring and maintenance requirements for SWM facilities constructed as part of the undertaking. The 2009 Annual Compliance Report (page 17) tracks the compliance of the commitment related to surface water resources. The ACR indicates that a draft Storm Water Management Plan has been prepared during preliminary engineering and will be finalized in the detailed design phase. MOE is listed as a potentially interested agency in Table 11.3-1 of the EA and therefore will be consulted. I will forward this e-mail to the design team at Rapidco to	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	

Appendix 5 Action for comments received on the FINAL Cedarland Alignment Modification Report - Pertaining to the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements Environmental Assessment (March 2010)					Compliance Monitoring			Compliance Review		
Representative	Name	No.	Comment	Response	Responsible person / agency	Status and Description of how commitment has been addressed during design	Compliance Document Reference	Status	Results	Notes
			the receiver, depending upon the sensitivity as determined by the Ministry. "monitoring of baseflow to surface water courses from the SWM ponds shall be undertaken for TSS & Temperature on a regular basis; and salt content (ionization potential) and heavy metal scan on semi-annual basis" as may be applicable.	ensure they consult MOE Technical Support at the appropriate stage with regard to the Storm Water Management Plan.						
		5	You don't mention noise –it will be closer to future sensitive receptors-can you confirm no increase in 5dba?	Based on the noise assessment undertaken in the original EA, we can conclude that the noise threshold will not be reached for the Cedarland Drive alignment. The proposed alignment is along the south side of Cedarland Drive, directly adjacent to lands designated for business park (not a sensitive receptor). The lands designated for mixed use (along the east side of Town Centre Boulevard and north of Cedarland Drive) are closer to the transitway along Town Centre Blvd (in the median of the road) as opposed to along Cedarland Drive (running along the south side of the road). The EA does not recommend consideration of noise mitigation except for the section along the Civic Mall within the Markham Town Centre (east of Warden Avenue) where the transitway will run within a pedestrian/transit corridor rather than within a road corridor as is the case for the remainder of the transitway, including along Cedarland Drive. In Table 10.4-2 of the EA (page 10-16), the following wording is included in the further mitigation column - "Depending on lower floor building uses, may require noise screening along transitway and/or noise control features in residential design along Civic Mall segment in Markham Centre area". The Noise and Vibration Impact Assessment is included in Appendix K of the EA and includes the following wording: 5.2.1 Bus Transit Noise Impact Table 5.6 compares the traffic noise levels for Scenario 1 with those of Scenario 2. The data indicate that for all road segments, except for the Town Centre Boulevard South Alignment (future Markham Centre area), only a very small (0 to 2 dB) increase in sound levels will be experienced by the closest receptors due to the bus transit option in all road segments along the preferred route of the Highway 7 Corridor. This reflects the minimal contribution of YRTP bus transit volumes as compared to the very high baseline traffic volume. Daytime sound levels at the future Markham Centre location are predicted to increase by about 8 dB and nighttime by 6 dB. This is due to the fact that transit will be the only traffic in the immediate vicinity of the Mall. As noted earlier in Chapter 3, mitigation measures are to be considered at this location as the exceedance above the predicted background sound level as expected to be greater than 5 dB. Housing proposed for the Markham Centre area will most likely consist of low-rise condominiums. In areas where the noise impact exceeds the applicable criteria, warning clauses and mitigation measures such as site planning, architectural design, special building components and/or central air conditioning may be necessary.	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	

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		6	<p>I had previously reviewed the EA and I am aware of the requirements, however the change to the route onto Cedarland is not addressed in the EA. It is not clear from your response whether my questions have been answered. I assume the following components and recommend the Addendum report address these items:</p> <p>Archaeological Resources Based on the findings in the EA, there is a potential for Archaeological resources associated with the Cedarland alignment hence the phase II archaeological assessment required in the EA will also include this portion of the alignment.</p>	<p>Technical Memorandum titled "Hwy 7 Corridor and Vaughan N-S Link Public Transit Improvements Environmental Assessment - Cedarland Alignment Modification - Response to MOE Comments of March 23, 2010 - December 15, 2010" addresses these items as follows:</p> <p>a) Archaeological Resources Provision has been made in the H3 Detail Design Final Work Plan for a Stage 2 Archaeological Assessment of all areas within the H3 project that were identified as having archaeological potential in the Stage 1 Archaeological Assessment (Appendix J of the Hwy 7 Corridor and Vaughan N-S Link Public Transit Improvements Environmental Assessment), as well as areas of the Cedarland Alignment Modification, as required.</p>	York Region	<p>Status- Does not apply to the H2-West or H2-East segment</p> <p>Cedarland Alignment Modification is in the H3 Segment</p>		Yes	Closed (2015)	
			<p>SWM Proposed discharge to the existing storm sewer on Town Centre Boulevard from Highway 7 to Cedarland Drive would not change with the Cedarland alignment modification since this segment of the transitway is the same as the original alignment. Since the new alignment is proposed along Cedarland Drive rather than in a new transit only corridor across the Rouge River (see EA figure 9-60), the drainage will likely be into the storm sewer on Cedarland Drive. This would have to be confirmed during development of the detailed Storm Water Management Plan in conjunction with detailed design of the transitway. In accordance with the EA (Table 11.3-1 on page 11-2), the Cedarland alignment will be included in the development of the proposed detailed Storm Water Management Plan in accordance with MOE's guidelines. Also as stated in the EA, the Storm Water Management Plan will outline monitoring and maintenance requirements for SWM facilities constructed as part of the undertaking. The Cedarland alignment will be included in the draft Storm Water Management Plan that has been prepared during preliminary engineering and will be finalized in the detailed design phase. MOE is listed as a potentially interested agency in Table 11.3-1 of the EA and therefore will be consulted.</p>	<p>b) Storm Water Management The preliminary engineering design work for Segment H3, including the modified Cedarland alignment has been completed, and included the drainage study titled "Final Drainage Study Revision 1 for Viva Next H3 Highway 7 (Y.R.7), June 10, 2010".</p> <p>The preliminary engineering design proposes the use of the existing stormwater sewer on South Town Centre Boulevard, which discharges to the Rouge River through the IBM property, as well as a new stormwater sewer along the east side of South Town Centre Boulevard, which connects to a new stormwater sewer running under the Viva Rapidway on the south side of Cedarland Drive and the west side of Warden Avenue, to discharge to the Rouge River at Viva stationing 540+200, near the Warden Avenue bridge. There will be no additional runoff to the existing South Town Centre Boulevard stormwater sewer. All runoff from the Viva Rapidway adjacent Cedarland Drive and Warden Avenue will be directed to the new stormwater sewer line under the Viva Rapidway.</p> <p>The "Final Drainage Study Revision 1 for Viva Next H3 Highway 7 (Y.R.7), June 10, 2010" incorporates the storm water management plan. Monitoring and maintenance requirements for storm water management facilities constructed as part of the undertaking will be outlined during the H3 detailed design phase.</p>	York Region	<p>Status- Does not apply to the H2-West or H2-East segment</p> <p>Cedarland Alignment Modification is in the H3 Segment</p>		Yes	Closed (2015)	

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		6 cont'd	Noise It is noted that Mixed Use development is proposed on the north side of Cedarland Drive which potentially includes sensitive uses (residential condos)? Noise assessment in Appendix K does not deal with new Cedarland alignment as such addendum report should note that: "Based on the noise assessment undertaken in the original EA, we can conclude that the noise threshold will not be reached for the Cedarland Drive alignment change". If this is applicable this should be included: "Depending on lower floor building uses, may require noise screening along transitway and/or noise control features in residential design". ??? or maybe you need to do a noise assessment to confirm?	c) Noise A baseline study was completed as part of the EA and is not required as part of the H3 Detail Design work program. However, an additional noise impact analysis for the Cedarland Alignment Modification will be undertaken and the requirement has been incorporated in the H3 Detail Design Work Plan	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	
			General Addendum should indicate that required studies under EA such as.....shall include Cedarland amendment and ACR report will report on any additional commitments.	d) General The required studies under the Highway 7 Corridor and Vaughan North-South Link Public Transit Improvements EA will incorporate the Cedarland Alignment Modification as required. In particular, the following studies are included in the H3 Detailed Design Work Plan: - Tree preservation plan and edge management plan - Stage 2 Archaeological Assessment report - Air quality report, according to MOE-approved protocols - Noise report for Cedarland Alignment - Documentation of existing wells in project area - Summary of first nations consultation - Wildlife inventory report	York Region	Status- Does not apply to the H2-West or H2-East segment Cedarland Alignment Modification is in the H3 Segment		Yes	Closed (2015)	