

SERVICING REPORT GROUNDWATER SUMMARY

The form is to be completed by the Professional that prepared the Servicing Report.
 Use of the form by the City of Toronto is not to be construed as verification of engineering/hydrological content.

For City Staff Use Only:	
Name of ECS Case Manager (please print)	
Date Review Summary provided to to TW	

A. SITE INFORMATION	Included in SR (reference page number)	Report Includes this information City staff (Check)
Date Servicing Report was prepared: August 22, 2019	Cover	
Title of Servicing Report: 11-25 Yorkville Avenue & 16-18 Cumberland Street	Cover	
Name of Consulting Firm that prepared Servicing Report: WSP Canada Group Ltd.		
Site Address 11-25 Yorkville Avenue and 16-18 Cumberland Street Toronto, Ontario	Pg 1	
Postal Code M4W 1L1	N/A	
Property Owner (identified on planning request for comments memo) 11 Yorkville Partnership Inc.	Inside Cover	
Proposed description of the project (ex. number of point towers, number of podiums, etc.) Building A: 1 Point tower – 62-storey mixed use tower Building B: 1 Point tower – 2-storey retail building	Pg 1	
Land Use (ex. commercial, residential, mixed, industrial, institutional) as defined by the Planning Act Mixed Use	Pg 1	
Number of below grade levels Building A: 4 levels below grade Building B: 1 level below grade	Pg 1	

SERVICING REPORT GROUNDWATER SUMMARY

<p>Does the SR include a private water drainage system (PWDS)?</p> <p>PWDS: Private Water Drainage System: A subsurface drainage system which may consist of but is not limited to weeping tile(s), foundation drain(s), private water collection sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection or drainage system for disposal in a municipal sewer.</p>	<p>If Yes continue completing Section B (Information Relating to Groundwater) <u>ONLY</u></p> <p>If Yes, Number of PWDS?</p> <p style="text-align: center;"><u>Two Systems</u></p> <p><i>(Each of these PWDS may require a separate Toronto Water agreement)</i></p> <p>If No skip to Sections C (On-site Groundwater Containment) and/or D (Water Tight Requirements) as applicable</p>	<p><input checked="" type="radio"/> YES</p> <p><input type="radio"/> NO</p>	
<p>B. INFORMATION RELATING TO GROUNDWATER</p>		<p>Included in SR (reference page number)</p>	<p>Report Includes this information City Staff (Check)</p>
<p>A copy of the pump schedule(s) for ALL groundwater sump pump(s) for the development site has been included in the SR</p> <p style="text-align: center;"><u>or</u></p> <p>A letter written by a Mechanical Consultant (signed and stamped by a Professional Engineer of Ontario) shall be attached to the SR stating the peak flow rate of the</p>	<p>The groundwater pumping rate letter from MV Shore can be found in Appendix E of the FSR</p>	<p>Appendix E</p>	

SERVICING REPORT GROUNDWATER SUMMARY

<p>groundwater discharge for the development site for all groundwater sump pump(s). This peak flow rate must be based on the pump schedule(s) that have been designed by the Mechanical Consultant. A template of this letter is attached in Schedule A.</p> <p>**If there is more than one groundwater sump they must ALL be included in the letters along with a combined flow**</p>			
<p>Is it proposed that the groundwater from the development site will be discharged to the sanitary, combined or storm sewer?</p>	<p><input type="radio"/> Sanitary Sewer</p> <p><input checked="" type="radio"/> Combined Sewer</p> <p><input type="radio"/> Storm Sewer</p>	<p>Pg 9-10</p>	
<p>Will the proposed PWDS discharge from the site go to the Western Beaches Tunnel (WBT)?</p> <p>*Reference attached WBT drainage map*</p>	<p><input type="radio"/> YES <input checked="" type="radio"/> NO</p> <p>If Yes, private water discharge fees will apply and site requires a sanitary discharge agreement.</p>		
<p>What is the street name where the receiving sewer is located?</p>	<p>Building A: Yorkville Ave</p> <p>Building B: Cumberland Ave</p>	<p>Pg 7-8</p>	
<p>What is the diameter of the receiving sewer?</p>	<p>Building A: 600mm Combined Sewer</p> <p>Building B: 450mm Combined Sewer</p>	<p>Pg 7-8</p>	
<p>Is there capacity in the proposed local sewer system?</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p>	<p>Are there any improvements required to the sewer system? If yes, identify them below and refer to the section and page number of the SR where this information can be found.</p> <p>No</p> <p>If a sewer upgrade is required, the owner is required to enter into an Agreement with the City to improve the infrastructure?</p>	<p>Pg 8-9</p>	

SERVICING REPORT GROUNDWATER SUMMARY

	○ YES		
<p>Has Toronto Water-WIM confirmed that there is there capacity in the proposed infrastructure listed below?</p> <p>- Trunk System? <input type="radio"/> YES <input type="radio"/> NO</p> <p>-Pumping Station? <input type="radio"/> YES <input type="radio"/> NO</p> <p>-Wastewater treatment plant? <input type="radio"/> YES <input type="radio"/> NO</p> <p>-Outfall? <input type="radio"/> YES <input type="radio"/> NO</p> <p>-Combined Sewer Overflow? <input type="radio"/> YES <input type="radio"/> NO</p> <p>*If there is no capacity in any of the above then alternative options need to be considered by the Owner and site cannot discharge to City sewer system.</p>	<p>Toronto Water-WIM has not commented on this application to confirm capacity.</p>		
<p>Total allowable peak flow rate during a 100 year storm event (L/sec) to storm sewer</p> <p>When groundwater is to be discharged to the storm sewer the total groundwater and stormwater discharge shall not exceed the permissible peak flow rate during a 2 year pre development storm event, as per the City's Wet Weather Flow Management Guidelines, dated 2006</p>	<p>Building A: 29.4L/s</p> <p>Building B: 4.4L/s</p>	Pg 18	
<p>Short-Term Groundwater Discharge</p> <p>Provide proposed total flow rate to the sanitary/combined sewer in post-development scenario</p>	<p>Building A</p> <p>0 L/s San Flow (No flow during construction) <u>+18.84 L/s (Max construction dewatering rate)</u> 18.84 L/s</p>	Pg 10	

SERVICING REPORT GROUNDWATER SUMMARY

<p>Total Flow (L/sec) = sanitary flow + peak short-term groundwater flow rate</p>	<p>Building B 0 L/s San Flow (No flow during construction) <u>+0.67 L/s (Max construction dewatering rate)</u> 0.67 L/s</p>		
<p>Long-Term Groundwater Discharge Provide proposed total flow rate to the sanitary/combined sewer in post-development scenario</p> <p>Total Flow (L/sec) = sanitary flow + peak long-term groundwater flow rate</p>	<p>Building A 12.47 L/s Peak San 0.07 L/s Infiltration <u>6.30 L/s Pumped Groundwater</u> 18.84 L/s</p> <p>Building B 0.03 L/s Peak San 0.01 L/s Infiltration <u>0.63 L/s Pumped Groundwater</u> 0.67 L/s</p>	<p>Pg 7</p>	
<p>Does the water quality meet the receiving sewer Bylaw limits?</p> <p><input type="radio"/> YES</p> <p><input checked="" type="radio"/> NO</p>	<p>If the water quality does not meet the applicable receiving sewer Bylaw limits and the applicant is proposing a treatment system the applicant will need to include a letter stating that a treatment system will be installed and the details of the treatment system will be included in the private water discharge application that will be submitted to TW EM&P.</p>	<p>Letter in Appendix E of the FSR</p>	
<p>C. ON-SITE GROUNDWATER CONTAINMENT</p>		<p>Included in SR (reference page number)</p>	<p>Report Includes this information City Staff (Check)</p>
<p>How is the site proposing to manage the groundwater discharge on site?</p>			
<p>Has the above proposal been approved by:</p>	<p><input type="radio"/> TW-WIM And</p>		

SERVICING REPORT GROUNDWATER SUMMARY

	<input type="radio"/> TW-EM&P And <input type="radio"/> ECS		
<p>If the site is proposing a groundwater infiltration gallery, has it been stated that the groundwater infiltration gallery will not be connected to the municipal sewer?</p> <p>A connection between the infiltration gallery/dry well and the municipal sewer is not permitted</p> <p>Please be advised if an infiltration gallery/dry well on site is not connected to the municipal sewer, the site must submit two letters using the templates in Schedule B and Schedule C.</p>	<input type="radio"/> YES <input type="radio"/> NO		
<p>Confirm that the infiltration gallery can infiltrate 100% of the expected peak groundwater flow year round, ensure that the top of the infiltration trench is below the frost line (1.8m depth), not less than 5 m from the building foundation, bottom of the trench 1m above the seasonally high water table, and located so that the drainage is away from the building.</p>			
D. WATER TIGHT REQUIREMENTS		Included in SR (reference page number)	Report Includes this information City Staff (Check)
<p>If the site is proposing a water tight structure:</p> <p>1. The owner must submit a letter using the template in Schedule D.</p>			

December 2017

SERVICING REPORT GROUNDWATER SUMMARY

2. A Professional Engineer (Structural), licensed to practice in Ontario and qualified in the subject must submit a letter using the template in Schedule E.		
3. A Professional Engineer (Mechanical), licensed to practice in Ontario and qualified in the subject must submit a letter using the template in Schedule F.		

Provide a copy of the approved SR to Toronto Water Environmental Monitoring & Protection Unit at pwapplication@toronto.ca.

Consulting Firm that prepared Servicing Report: WSP Canada Group Ltd.

Professional Engineer who completed the report summary: Andrew Kerr
Print Name

Professional Engineer who completed the report summary: *Andrew Kerr*
Signature Date & Stamp

