

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: October 14, 2022		
Title of Servicing Report: Site Servicing and Stage 1 Stormwater Management Report		
Name of Consulting Firm that prepared Servicing Report: R.V. Anderson Associates Limited		
Site Address	450 Dufferin St. Toronto, Ontario	
Postal Code	TBD	
Property Owner (identified on planning request for comments memo)	HM RK (450 Dufferin) Ltd.	
Proposed description of the project (ex. number of point towers, number of podiums, etc.)	Fifteen (15) storeys mixed-use building with two (2) levels of underground parking	Pg. 4
Land Use (ex. commercial, residential, mixed, industrial, institutional) as defined by the Planning Act	Mixed use (ground level commercial, upper levels residential)	Pg. 4
Number of below grade levels	2-levels underground	Pg. 4

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<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? <u>1</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="checkbox"/> YES</p> <p><input type="checkbox"/> 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 FSR</p> <p style="text-align: center;">or</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 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>N/A</p>		

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<p>**If there is more than one 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. 5-6</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>Dufferin Street</p>	<p>Pg. 6</p>	
<p>What is the diameter of the receiving sewer?</p>	<p>450mm</p>	<p>Pg. 6</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 FSR where this information can be found.</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 style="text-align: right;"><input type="radio"/> YES</p>	<p>Pg. 16</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</p>	<p><u>18.3</u> L/sec</p>	<p>Pg. 13</p>	

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<p>Wet Weather Flow Management Guidelines, dated 2006</p>			
<p>Short-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 short-term groundwater flow rate</p>	<p><u>0.57</u> L/sec</p>	<p>Pg. 6</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><u>0</u> L/sec</p>	<p>Pg. 6</p>	
<p>Does the water quality meet the receiving sewer Bylaw limits?</p> <p><input checked="" type="radio"/> YES</p> <p><input 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>Pg. 6</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>Water-tight foundation</p>	<p>Pg. 5-6</p>	

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<p>Has the above proposal been approved by:</p>	<p><input type="radio"/> TW-WIM</p> <p>And</p> <p><input type="radio"/> TW-EM&P</p> <p>And</p> <p><input type="radio"/> ECS</p>		
<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>	<p><input type="radio"/> YES</p> <p><input checked="" type="radio"/> NO</p>		
<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>	<p>N/A</p>		
<p>D. WATER TIGHT REQUIREMENTS</p>		<p>Included in SR (reference page number)</p>	<p>Report Includes this information City Staff</p>

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		(Check)
<p>If the site is proposing a water tight structure:</p> <ol style="list-style-type: none"> 1. The owner must submit a letter using the template in Schedule D. 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. 		

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

Consulting Firm that prepared Servicing Report: R.V. Anderson Associates Limited

Professional Engineer who completed the report summary: Alex Wong, P.Eng.
Print Name



Professional Engineer who completed the report summary: _____
Signature Date & Stamp

Schedule A: Template Letter from Mechanical Consultant confirming peak groundwater flow rate

[Mechanical Consultant Company Letterhead]
 [Company Name]
 [Company Address and Contact Information]

[Date]
Attention: Executive Director, Engineering and Construction Services
 c/o Manager, Development Engineering
 [ADDRESS]

cc: General Manager, Toronto Water
 c/o Manager, Environmental Monitoring and Protection Unit
 30 Dee Ave, Toronto ON M9N 1S9

hullmark

HM RK (450 Dufferin) Ltd.
474 Wellington Street West
Toronto, ON M5V 1E3
t: 416.510.1700
www.hullmark.ca

11/3/2022

Attention: Executive Director, Engineering and Construction Services
c/o Manager, Development Engineering
Toronto City Hall
100 Queen Street West, 24th Floor
Toronto, ON M5H 2N2

cc: General Manager, Toronto Water
c/o Manager, Environmental Monitoring and Protection Unit
30 Dee Avenue
Toronto, ON M9N 1S9

Dear Sir or Madam,

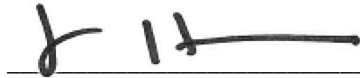
I, **JEFF HULL**, confirm and undertake that I will construct and maintain all building(s) on the subject lands **450-458 DUFFERIN STREET** in a manner which shall be completely water-tight below grade and resistant to hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but 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 directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

Jeff Hull, ASO

Name (printed) and Title

jeff@hullmark.ca

Email



Signature

I, **JEFF HULL**, have the authority to bind the corporation

November 3, 2022

Attention:

Executive Director, Engineering and Construction Services
c/o Manager, Development Engineering
55 John Street, 16th Floor
Toronto ON M5V 3C6

cc:

General Manager, Toronto Water
c/o Manager, Environmental Monitoring and Protection Unit
30 Dee Ave, Toronto ON M9N 1S9

Re: 450 Dufferin Street

Dear Sir or Madam,

I, Anthony Mirvish, confirm that all buildings on the subject lands at 450 Dufferin Street, Toronto ON can be constructed completely water-tight below grade in a manner that will resist hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but 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 directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

Regards,
Honeycomb Group Inc.



Anthony Mirvish, P. Eng.
Principal
anthony.mirvish@honeycombgroup.ca
416-451-9806

