

Planning Act

Number of below grade levels

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) Included in A. SITE INFORMAITON Report **Includes** SR (reference this information page City staff number) (Check) Date Servicing Report was prepared: December 16, 2019 Cover Title of Servicing Report: Stormwater Management and Servicing Report Cover Name of Consulting Firm that prepared Servicing Report: LEA Consulting Ltd. Cover Site Address 1637-1645 Bathurst Street p.1 Toronto, Ontario Postal Code M5P 3J6 Property Owner (identified on planning Starlight Investments p.1 request for comments memo) Proposed description of the project (ex. The proposed development consists of a p.1 number of point towers, number of podiums, 4-storey residential building and 2 levels of etc.) below-grade parking garage. Land Use (ex. commercial, residential, mixed, Residential p.1 industrial, institutional) as defined by the

Two levels of underground parking garage

p.3



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.	The proposed building will be constructed watertight. Only short-term dewatering system. If Yes continue completing Section B (Information Relating to Groundwater) ONLY If Yes, Number of PWDS? One (Each of these PWDS may require a separate Toronto Water agreement) If No skip to Sections C (On-site Groundwater Containment) and/or D (Water Tight Requirements) as applicable	● YES ○ NO	
B. INFORMATION RELAT	ING TO GROUNDWATER	Included in SR	Report Includes
		(reference page number)	this information City Staff (Check)



If there is more than one groundwater sump they must ALL be included in the letters along with a combined flow Is it proposed that the groundwater from the development site will be discharged to the sanitary, combined or storm sewer?	Sanitary Sewer	p.7	
	Combined SewerStorm Sewer		
Will the proposed PWDS discharge from the site go to the Western Beaches Tunnel (WBT)?	○ YES ● NO		
Reference attached WBT drainage map	If Yes, private water discharge fees will apply and site requires a sanitary discharge agreement.		
What is the street name where the receiving sewer is located?	Bathurst Street	p.7	
What is the diameter of the receiving sewer?	1350mm	p.7	
Is there capacity in the proposed local sewer system? YES NO	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. No, the surcharged condition is an existing condition. Moreover, the proposed storm discharge will be less than that in the existing condition. Therefore, the existing condition will	p.13	
	not be aggravated and MOE Procedure F-5-5 will not be contravened		
	If a sewer upgrade is required, the owner is required to enter into an Agreement with the City to improve the infrastructure? YES		



Has Toronto Water-WIM confirmed that there is there capacity in the proposed infrastructure listed below?		
- Trunk System?		
YES NO		
-Pumping Station?		
○ YES ○ NO		
-Wastewater treatment plant?		
○ YES ○ NO		
-Outfall? YES NO		
-Combined Sewer Overflow?		
○ YES ○ NO		
*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.		
sewer system.		
Total allowable peak flow rate during a 100	F1.01 L/coc	n 2
year storm event (L/sec) to storm sewer	<u>51.01</u>	p.3
(2,000)		
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		
dated 2000		
Short-Term Groundwater Discharge	192 m³/day	p.7
Provide proposed total flow rate to the	·	p.,
sanitary/combined sewer in post-development	<u>= 2.22</u> L/sec	
scenario		
Total Flow (L/sec) = sanitary flow + peak short-		
term groundwater flow rate		



Long-Term Groundwater Discharge Provide proposed total flow rate to the sanitary/combined sewer in post-development scenario Total Flow (L/sec) = sanitary flow + peak long- term groundwater flow rate	3.15 syste	osed groundwater (Peak Discharge Rate: L/s) will be discharged to the storm sewer m. L/sec (sanitary flow only)	p.12	
Does the water quality meet the receiving sewer Bylaw limits? YES NO	application the a station install syste disch	water quality does not meet the cable receiving sewer Bylaw limits and pplicant is proposing a treatment system pplicant will need to include a letter ng that a treatment system will be lled and the details of the treatment m will be included in the private water arge application that will be submitted to M&P.	p.7	
C. ON-SITE GROU	NDWA	TER CONTAINMENT	Included in	Report
			SR (reference page number)	Includes this information City Staff (Check)
How is the site proposing to manage the			(reference page	this information City Staff
groundwater discharge on site?			(reference page	this information City Staff
	O And	TW-WIM	(reference page	this information City Staff
groundwater discharge on site?		TW-WIM TW-EM&P	(reference page	this information City Staff
groundwater discharge on site?	And		(reference page	this information City Staff
groundwater discharge on site?	And O And	TW-EM&P	(reference page	this information City Staff



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gallery/dry well and the municipal sewer is not permitted Please be advised if an infiltration gallery/dry well on site is not connected to the municipal sewer, the site <u>must</u> submit two letters using the templates in Schedule B and Schedule C. 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.			
D. WATER TIGHT REQUI	IREMENTS	Included in SR (reference page number)	Report Includes this information City Staff (Check)
If the site is proposing a water tight structure:			
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.			
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 & Protect	tion Unit at	

pwapplication@toronto.ca.

Consulting Firm that prepared Servicing Report:LEA	Consulting Ltd.	
Professional Engineer who completed the report summary:	Dorothy Poon Print Name	Dorethy our 100508213
Professional Engineer who completed the report summary:	() a Lath () Ban	POLINCE OF ONTHE
- , , , , , , , , , , , , , , , , , , ,	Signature	Date & Stamp



SERVICING REPORT GROUNDWATER SUMMARY

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

[Mechanical Consultant Company Letterhead]	
[Company Name]	
[Company Address and Contact Information]	
[<mark>Date</mark>]	
Attention: Executive Director, Engineering and Construction Services	
c/o Manager, Development Engineering	
[<mark>ADDRESS</mark>]	
cc: General Manager, Toronto Water	
c/o Manager, Environmental Monitoring and Protection Unit	
30 Dee Ave, Toronto ON M9N 1S9	
Dear Sir or Madam,	
This letter is to confirm that groundwater from the Private Water Drainage Sy	stem [Description] will be collected
and discharged into the [SANITARY OR STORM] control manhole, at a maximu	um peak flow rate of [XX L/sec]
(groundwater peak flow rate).	
The groundwater sump pumps will be sized at [XX L/sec] and are expected to	run approximately [XX hours per
<mark>day</mark>].	
This peak flow rate will be used for assessing capacity for the peak discharge	flow into the City's [<mark>SANITARY OR</mark>
STORM] sewer system.	
Once the proposed groundwater peak flow rate of [XX L/sec] is approved by E	Engineering Construction Services
(ECS), City of Toronto at the [ZONING/RE-ZONING] stage, the property owner	
flow rate in the future. Should there be any amendment to the peak flow rate	
property owner shall re-submit either the updated pump schedule or a revise sewer capacity will need to be re-assessed.	ed letter to ECS. In addition, the
sewer capacity will need to be re-assessed.	
Name (printed)	
Name (printed)	
Signature	Stamp



SERVICING REPORT GROUNDWATER SUMMARY

Schedule B: Template Letter from the Property Owner confirming that infiltration gallery/dry well is not connected to the municipal sewer

not connected to the municipal sewer [Company Letterhead] [Company Name] [Property Owner Name and Contact Information] [Date DD/MMM/YYYY] 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 Dear Sir or Madam, ______, confirm and undertake that I will maintain all building(s) on the subject lands (MUNICIPAL ADDRESS) in a manner which will not discharge, directly or indirectly, any private water collected from 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 to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer. All the water collected in the sub-drainage collection system will be managed onsite all time via infiltration gallery/dry well. There will be no direct or indirect discharge of private water to City's sewer. I am aware of MOECC and OBC requirements regarding infiltration gallery/dry well. Name (printed) and Title **Email** Signature

I, [PRINT NAME], have the authority to bind the corporation.



SERVICING REPORT GROUNDWATER SUMMARY

Schedule C: Template Letter from a Professional (P.Eng or P.Geo) confirming that infiltration gallery/dry well is not connected to the municipal sewer

[Company Letterhead]	
[Company Name]	
Property Owner Name and Contact Information	on]
[Date DD/MMM/YYYY]	
Attention: Executive Director, Engineering ar c/o Manager, Development Engineering [ADDRESS]	nd Construction Services
Cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and F 30 Dee Ave, Toronto ON M9N 1S9	Protection Unit
Dear Sir or Madam,	
constructed in a manner that will not discharge drainage system consisting of but not limited to sump(s), private water pump or any combination connection directly or indirectly or drainage system water collected in the sub-drainage collection	n the subject lands (MUNICIPAL ADDRESS) has been a, directly or indirectly, any private water collected from subsurface to weeping tile(s), foundation drain(s), private water collection on thereof for the disposal of private water to a private sewer estem for disposal directly or indirectly in a municipal sewer. All on system will be managed onsite all time via infiltration irect discharge of private water to City's sewer.
I am aware of MOECC and OBC requirements	s regarding infiltration gallery/dry well.
Name (printed)	
	Professional Title [P.Geo or P.Eng (specify which discipline)]
Email	
Signature	Stamp



SERVICING REPORT GROUNDWATER SUMMARY

Schedule D: Template Letter from the Property Owner confirming water tight structure

[Company Letterhead]
[Company Name]
[Property Owner Name and Contact Information]
[Date DD/MMM/YYYY]
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
Dear Sir or Madam,
I, confirm and undertake that I will construct and maintain all building(s) on the subject lands (MUNICIPAL ADDRESS) 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.
Name (printed) and Title
Email
Signature
I, [PRINT NAME], have the authority to bind the corporation.



SERVICING REPORT GROUNDWATER SUMMARY

Schedule E: Template Letter from a Professional Engineer (Structural) confirming water tight structure



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Schedule F: Template Letter from a Professional Engineer (Mechanical) confirming water tight structure

Structure	
[Mechanical Consultant Company Lette	<mark>rhead]</mark>
[Company Name]	
[Property Owner Name and Contact Inf	ormation]
[Date DD/MMM/YYYY]	
Attention: Executive Director, Engineer c/o Manager, Development Engineering [ADDRESS]	_
cc: General Manager, Toronto Water c/o Manager, Environmental Monitorin 30 Dee Ave, Toronto ON M9N 1S9	g and Protection Unit
constructed below grade in a manner w drainage system) consisting of but not I sump(s), Private Water pump or any co ground or to a private sewer connection indirectly in a municipal sewer. Underg	ng(s) on the subject lands (MUNICIPAL ADDRESS) will be designed and without any necessity for Private Water Drainage System (subsurface imited to weeping tile(s), foundation drain(s), Private Water collection imbination thereof for the disposal of Private Water on the surface of the indirectly or indirectly or drainage system for disposal directly or ground structure(s) of the proposed building(s) will be built completely at connection to the City sewer system for the discharge of Groundwater frastructure).
I understand that a Private Water Drain of this proposal	age System as an emergency back-up system is not permitted, as part
Name (printed)	
Professional Title [P.Eng (Mechanical)]	
Email	
Signature	