TORONTO

December 2017

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:	*2023-07-10*	*Pg.i*	
Title of Servicing Report:	*Functional Servicing and Stormwater Management Report*	*Pg.i*	
Name of Consulting Firm that prepared Servicing Report:	*Lithos Group Inc.*	*Pg.i*	
Site Address	*48 Grenoble Drive* Toronto, Ontario	*Pg. iii*	
Postal Code	*M3C 1C8*	*Pg. 1*	
Property Owner (identified on planning request for comments memo)	*Tenblock*	*Pg. iii*	
Proposed description of the project (ex. number of point towers, number of podiums, etc.)	*The proposed residential development will consist of a 6-storey podium with two (2) high-rise, 39-storey and 43-storey towers*	*Pg. 2*	
Land Use (ex. commercial, residential, mixed, industrial, institutional) as defined by the Planning Act	*Residential-Use.*	*Pg. 1*	
Number of below grade levels	*Three (3) underground levels.*	*Pg. 2*	

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Does the SR include a private water drainage system (PWDS)? **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.	If **Yes** continue completing Section B (Information Relating to Groundwater) **ONLY** **If Yes, Number of PWDS?** _____ *(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 RELATING TO GROUNDWATER		**Included in SR (reference page number)**	**Report Includes this information** **City Staff** **(Check)**
A copy of the pump schedule(s) for **ALL** groundwater sump pump(s) for the development site has been included in the SR **or** 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.	*N/A*	*N/A*	

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****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 *Only during construction* ◯ Combined Sewer ◯ Storm Sewer	*Pg. 9*	
Will the proposed PWDS discharge from the site go to the Western Beaches Tunnel (WBT)? *Reference attached WBT drainage map*	◯ YES ☑ NO **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?	*Grenoble Drive*	*Pg. 9*	
What is the diameter of the receiving sewer?	*375mm sanitary sewer*	*Pg. 9*	
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. If a sewer upgrade is required, the owner is required to enter into an Agreement with the City to improve the infrastructure? ◯ YES	*Pg. 9*	
Has Toronto Water-WIM confirmed that there is there capacity in the proposed infrastructure listed below? - Trunk System? ◯ YES ◯ NO -Pumping Station? ◯ YES ◯ NO	*N/A*		

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-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.	*N/A*		
Total allowable peak flow rate during a 100 year storm event (L/sec) to storm sewer 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	___28.4_____ L/sec *Groundwater will not be discharged into the City's Storm network.*	*Pg. 4*	
Short-Term Groundwater Discharge Provide proposed total flow rate to the sanitary/combined sewer in post-development scenario Total Flow (L/sec) = sanitary flow + peak short-term groundwater flow rate	*Short-term groundwater will be discharged into the City's sanitary network.* *Sanitary flow during construction = 00 L/sec* *Groundwater flow during construction (short-term groundwater discharge)= 2.92 L/s*	*Pg. 9*	
Long-Tem Groundwater Discharge Provide proposed total flow rate to the sanitary/combined sewer in post-development scenario	*Not Applicable* *Proposed development will be water-tight.*	*Pg. 8*	

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Total Flow (L/sec) = sanitary flow + peak long-term groundwater flow rate		*N/A*	
Does the water quality meet the receiving sewer Bylaw limits? ☑ YES ◯ NO	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.	*Pg. 8*	
C. ON-SITE GROUNDWATER CONTAINMENT *Not Applicable* *Proposed development will be water-tight*		**Included in SR (reference page number)**	**Report Includes this information City Staff (Check)**
How is the site proposing to manage the groundwater discharge on site?	*Proposed development will be water-tight*	*N/A*	
Has the above proposal been approved by:	◯ TW-WIM And ◯ TW-EM&P *N/A* And ◯ ECS		
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? A connection between the infiltration gallery/dry well and the municipal sewer is not permitted Please be advised if an infiltration gallery/dry	◯ YES ◯ NO	*N/A*	

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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.			
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.	*N/A*	*N/A*	
D. WATER TIGHT REQUIREMENTS		**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.		*The subject letters have been attached at the end of the subject report summary*	

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

Consulting Firm that prepared Servicing Report: _____Lithos Group Inc._____

Professional Engineer who completed the report summary: _____Nick Moutzouris____
Print Name

Professional Engineer who completed the report summary: _____
Signature

Date & Stamp

March 18, 2022

Attention:
Chief Engineer and 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: 48 Grenoble Drive, Toronto, ON
Our Project No. 22.161

Dear Sir or Madam,

I, Anthony Mirvish, confirm that all buildings on the subject lands (48 Grenoble Drive) can be constructed 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.

Sincerely,
Honeycomb Group Inc.

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

30 Soudan Ave., Suite 200
Toronto, Ontario M4S 1V6
Direct line: 416.322.4112
mkelling@tenblock.ca

Microbjo Properties Inc. c/o Tenblock
30 Soudan Avenue, Suite 200
Toronto, ON M4S 1V6

March 18, 2022

Attention: Chief Engineer and Executive Director, Engineering and Construction Services
c/o Manager, Development Engineering
Metro Hall
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

Dear Sir or Madam,

I, Tenblock, confirm and undertake that I will construct and maintain all building(s) on the subject lands (48 Grenoble Drive) 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.

Sincerely,

Tenblock

Matthew Kelling, Development Manager
mkelling@tenblock.ca

I, Matthew Kelling, have the authority to bind the corporation.

Smith + Andersen

1100 – 100 Sheppard Ave. East, Toronto ON, M2N 6N5
416 487 8151 f 416 487 9104 smithandandersen.com

2023-05-11

Attention: Chief Engineer and Executive Director, Engineering and Construction Services
c/o Manager, Development Engineering

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 Vadim Vatoutine, confirm that all building(s) on the subject lands 48 Grenoble Dr. will be designed and constructed in a manner without 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. Underground structure(s) of the proposed building(s) will be built completely watertight without any direct or indirect connection to the City sewer for the discharge of groundwater (from a PWDS or floor drain or other infrastructure).

I understand that a Private Water Drainage System as an emergency back up system is not permitted, as part of this proposal.

Yours truly,

SMITH + ANDERSEN

Vadim Vatoutine, P.Eng.
Senior Project Manager
d 647 475 3958
Vadim.Vatoutine@smithandandersen.com

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