



Stantec Consulting Ltd.
100-300 Hagey Boulevard
Waterloo ON N2L 0A4

April 30, 2026
File: 122170424

Kyle Kazda, MBA
Taggart Realty Management/1000147699 Ontario Inc
225 Metcalfe Street, Suite 708
Ottawa ON K2P 1P9

Dear Kyle Kazda,

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Taggart Realty Management has proposed the redevelopment of a block that is currently occupied by numerous commercial properties in an urban block bound by Parkdale Avenue, Armstrong Street, Hamilton Avenue, and Spencer Street in Ottawa, Ontario (the Site; Figure 1). The municipal addresses include 3 Hamilton Avenue North (which includes units 5, 7A and 7B and 340 Parkdale), and 223, 229, and 233 Armstrong Street, Ottawa Ontario. Stantec Consulting, Ltd. (Stantec) conducted a hydrogeological field investigation in support of the redevelopment, specifically to support site plan approval and construction dewatering planning. This memo is not suitable for submission for dewatering permitting.

Stantec Consulting Ltd. (Stantec) has prepared the following hydrogeological memo detailing the project details (Section 1), geology of the Site (Section 2), field investigation (Section 3), water quality review (Section 4), and preliminary dewatering considerations (Section 5). Figures and tables referenced in this letter are included in Appendix A and Appendix B, respectively. Borehole logs and hydraulic conductivity testing results are included in Appendices C and D, respectively.

1 Project Details

The redevelopment will include demolition of the existing properties and the construction of a multi-story mixed-use (commercial/community and residential) building with underground parking. Excavations to accommodate multiple levels of underground parking (up to 12 m below ground surface (BGS)) will require the removal of overburden soil and several metres of bedrock. It is anticipated that groundwater management will be required during the below-grade construction phase. The total area of the Site is approximately 0.34 hectares (0.84 acres); the footprint of the proposed building is expected to cover the entire Site. The Site is contaminated, with contaminants of concern (COC) identified at the Site being petroleum hydrocarbons (PHC), volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), and metals and inorganics (Stantec, 2025a¹).

¹ Stantec Consulting Ltd. 2025a. Phase Two Conceptual Site Model. Prepared for Taggart Realty Management / 1000147699 Ontario Inc, April 4, 2025.

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

2 Geology and Stratigraphy of the Site

2.1.1 Surficial Geology

The Site is located within the Ottawa Valley Clay Plains physiographic region (Chapman and Putnam, 1984²). The native surficial soils in the Site consist of stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain (Ontario Geological Survey (OGS), 2000³).

The soil profile observed by Stantec during the Phase Two Environmental Site Assessment (ESA) (Stantec, 2024⁴) was generally consistent with the profile discussed above, and consisted of up to 1.5 m of silty sand fill which was underlain by limestone bedrock.

2.1.2 Bedrock Geology

Bedrock geology in the vicinity of the Site was mapped as limestone, dolostone, shale, and sandstone of the Gull River Formation (Armstrong and Dodge, 2007⁵). Limestone bedrock was encountered at depths between 0.46 m and 1.5 m BGS during the Phase Two ESA (Stantec, 2024⁴). It was noted in previous site investigations that groundwater in the intermediate (7 m to 12 m BGS) and deep (12 m to 22 m BGS) bedrock unit was determined to flow east and northeast towards a geological fault (Golder, 2019⁶; Stantec, 2024⁴). Groundwater flow direction in the shallow (0 m to 7 m BGS) bedrock was variable (towards the west, north, and east), and either mimics the local topography or is influenced by nearby subsurface structures such as building foundations, weeping tiles and utility trenches.

3 Field Investigation

Previous site investigations classified wells into groundwater zones based on their respective depths (Stantec, 2024⁴). The shallow groundwater zone was classified as being between 0 m to 7 m BGS, the intermediate groundwater zone was classified as being between 7 m to 12 m BGS, and the deep groundwater zone was classified as being deeper than 12 m BGS. For this hydrogeological field investigation, one existing monitoring well from the shallow groundwater zone (MW14-1B) and two existing monitoring wells from the intermediate groundwater zone (MW14-1A and MW19-2B) were chosen for monitoring based on access, construction details, and bedrock fracture details. Stantec completed hydraulic conductivity testing at these three monitoring wells and conducted water level monitoring at one shallow and one intermediate monitoring well. Borehole logs are provided in Appendix C. Water from field investigations outlined in this memo were contained on-site in drums.

² Chapman L.J. and D.F. Putnam. 1984. The Physiography of Southern Ontario, 3rd Edition. Ontario Geological Survey, Special Volume 2.

³ Ontario Geological Survey. 2000. 1:1000000 Scale Quaternary geology, seamless coverage of the Province of Ontario. Ontario Geological Survey.

⁴ Stantec Consulting Ltd. 2024. Phase Two Environmental Site Assessment, Proposed Hintonburg Development, Ottawa, Ontario, Prepared for Taggart Realty Management, March 1, 2024.

⁵ Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology Map of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 219.

⁶ Golder Associates Ltd. 2019. April 2018 Targeted Site Wide Groundwater Monitoring, 3 Hamilton Avenue North, Ottawa, Ontario, Prepared for Honeywell Limited, May 2019.

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Monitoring wells MW14-1A, MW14-1B, and MW19-12B were developed on April 28, 2025 to remove debris from the well before hydraulic conductivity testing. Due to slow water recovery at the monitoring wells, development involved purging MW14-1B and MW19-12B dry three times and purging MW14-1A once prior to hydraulic conductivity testing.

3.1.1 Hydraulic Conductivity

Hydraulic conductivity testing was completed at MW14-1A, MW14-1B, and MW19-12B on April 29, 2025 using a slug to displace water within the well, then recording the water level as it returned to static by taking manual water levels.

The hydraulic conductivity test results were analyzed using AQTESOLV for Windows Professional Version 3.5 (Duffield, 2003⁷). The Bouwer Rice (1976⁸) solution was used for the analysis. Table 1 presents the calculated hydraulic conductivity for each of the tested monitoring wells. Appendix D contains copies of the 2025 hydraulic conductivity analysis results.

The testing indicated results of:

- 1×10^{-7} m/s to 3×10^{-7} m/s for MW14-1A (intermediate groundwater zone), which is screened within dolostone and limestone.
- 6×10^{-6} m/s for MW14-1B (shallow groundwater zone), which is screened within limestone.
- 2×10^{-7} m/s for MW19-12B (intermediate groundwater zone), which is screened within bedrock.

In comparison to literature values, these measured hydraulic conductivities are within the accepted range for limestone and dolomite of 1×10^{-5} m/s to 1×10^{-9} m/s (Freeze and Cherry, 1979⁹). The geometric mean of the above slug test measurements is 6×10^{-7} m/s, and a 10 m thickness of this rock would have a very low (see Krasny, 1993¹⁰) transmissivity of approximately 0.5 m²/day.

As part of the Stantec Geotechnical Investigation (Stantec, 2025b¹¹), packer testing was conducted at one borehole drilled in the southern portion of the property. A double packer set-up was used to evaluate hydraulic conductivity in the following intervals: 3.5 - 5.7 m, 6.9 - 9.1 m, and 14.25 - 16.5 m BGS. Injections were performed at five different pressures at each interval, meaning that, effectively, five tests were performed at each interval. Five out of five tests were “no flow” tests (meaning that the volume of water injected was too low to be measured with the equipment on hand) in the shallowest interval, and four out of five were “no flow” tests in the deepest interval. These results suggest very low permeability of the rock at these depths. During the testing of the middle interval, water was observed to be leaking out of the top of the well casing of an adjacent monitoring well, suggesting the presence of a fracture connecting the tested borehole to the adjacent well, but also making the packer test results inadmissible.

⁷ Duffield, G.M., 2009. AQTESOLV for Windows Professional Version 4.0

⁸ Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, *Water Resources Research*, vol. 12, no. 3, pp. 423-428.

⁹ Freeze, A.R., and Cherry, J.A. 1979 *Groundwater*. Prentice-Hall, Inc. Englewood Cliff, New Jersey

¹⁰ Krasny, J. 1993. “Classification of Transmissivity Magnitude and Variation”, *Groundwater*: 31:2: 230-236

¹¹ Stantec Consulting, Ltd. 2025b. Draft Geotechnical Investigation Report – Parkdale Development at 340 Parkdale, Ottawa, Ontario. Prepared for Taggart Realty Management, August 2025.

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

3.1.2 Water Level Monitoring

Manual water levels were taken in support of sampling for an ongoing groundwater monitoring program at that Site between June 16, 2025 and June 18, 2025 at 16 monitoring wells (Table 1). Water levels taken over this two-day period range from 1.8 to 4.4 m BGS in the shallow bedrock and 3.6 m to 5.6 m BGS in the intermediate and deep bedrock.

Continuous groundwater levels were monitored at MW14-1B (shallow bedrock) from April 28, 2025 to May 26, 2025 and at MW19-12B (intermediate bedrock) from April 28 to June 26, 2025 with the use of Solinst® LT Levelloggers®, with the goal of capturing the high spring groundwater levels at the Site. The Levelloggers, consisting of a pressure transducer and datalogger, were suspended into the water column within the wells and set to record water level fluctuations at set intervals. The Levellogger installed in MW14-1B recorded at a one-minute interval and the Levellogger installed in MW19-12B was set to record at a one-hour interval.

Based on the water level data from April to June 2025, groundwater level in the shallow bedrock (MW14-1B) ranged between 3.5 m and 4.0 m BGS while groundwater level in the intermediate bedrock (MW19-12B) ranged from 3.5 m to 5.0 m BGS (Figure 2). An abrupt increase in water level occurred at both monitoring wells on May 6, 2025. Climate data shown on Figure 2 shows a rainfall event during this day, though it was smaller in magnitude than a rainfall event in April that caused a similar but smaller rise in groundwater levels. It is noted that the precipitation shown on Figure 2 was recorded at the Ottawa Airport located approximately 13 km south of the Site and therefore may not be representative of site conditions. A flood warning was issued for the Lower Ottawa River (which includes the City of Ottawa) by the Province of Ontario and various conservation authorities on May 5, 2025 due to rainfall (South Nation Conservation, 2025¹²). It is expected that high groundwater levels captured by Levelloggers at the Site on May 6, 2025 were likely due to rainfall in the area causing a regional increase in groundwater level. There were no site visits conducted by Stantec on or around that date.

Continuous groundwater monitoring at MW14-1B and MW19-12B shows some influence of precipitation events on groundwater levels. The data also suggest some variation seasonally, with a range in groundwater levels of about 2.6 m in the shallow bedrock zone and about 2 m in the intermediate bedrock zone. Previous field investigations (Stantec, 2024⁴) indicated that surfaces of the site where buildings were not present primarily comprised of paved parking areas, concrete sidewalks, asphalt rights-of-way, and a grassy courtyard area. It is expected that surface water infiltration to the subsurface would be limited to the grassy courtyard.

For the purposes of design and construction, based on the available data, spring groundwater levels should be assumed at 3.5 m BGS, with higher levels of 1 m to 2 m BGS temporarily observed following regional recharge events.

¹² South Nation Conservation, 2025, May 2025. Lower Ottawa River Flood Message. Annprior to Hawkesbury.
https://www.nation.on.ca/sites/default/files/Update_1_Ottawa%20River%20Flood%20Warning%20Statement_May%202025.pdf

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

4 Water Quality

Groundwater quality sampling was completed at 18 monitoring wells in June 2023 and 23 monitoring wells in June 2025. Water samples from the June 2023 sampling event were submitted under Ontario Regulation (O.Reg.) 153/04 for analysis of general chemistry, PHCs, dissolved metals, PAHs, and VOCs. Water samples from the June 2025 sampling event were also submitted under O.Reg. 153/04 for analysis VOCs, PHCs, and PAHs.

Available water quality data from the two sampling events listed above were compared to the City of Ottawa Sewer Use By-law (By-law No. 2025-94), to determine if discharge water generated during construction dewatering may be directed towards the municipal sanitary or storm sewer system. Water quality parameters analyzed under O.Reg. 153/04 do not necessarily include all parameters included under the City of Ottawa Sewer Use By-law. As such, this comparison is a preliminary review of water quality at the Site. Table 2 presents the water quality results, with results compared to City of Ottawa Sewer Use By-law. Based on tested parameters, there were multiple exceedances of both the sanitary and storm sewer criteria for VOCs and PAHs. At one monitoring well, there was also an exceedance of dissolved zinc.

5 Preliminary Dewatering Considerations

Under Ontario Regulation 63/16, the taking of groundwater and storm water related to construction site dewatering is a prescribed activity under the Environmental Protection Act, which, as such and subject to the eligibility requirements, must be registered on the Environmental Activity and Sector Registry (EASR). Registration is required if the taking of water is more than 50,000 litres of ground water, storm water or a combination of ground water and storm water on at least one day during the life of the construction project. Registration of the water taking activity is typically performed by the Contractor, supported by a water taking report and a discharge report, each prepared by a Qualified Person (QP). It is common for the water taking report and the discharge report to be prepared by the project owner's consultants during the design stage. The registration process is online and requires no review by Ministry of the Environment, Conservation and Parks (MECP). Water taking can start almost immediately following registration, assuming any necessary notifications have been made. If the water taking is 100 per cent storm water, it is not necessary to register the activity on the Registry, but the Contractor must still meet certain activity requirements including the requirement to retain a QP to complete a discharge report, the requirement to follow such a report, and the requirement to keep records.

As detailed in Section 3.1.2, water levels are expected to be encountered between 1.8 m and 5.6 m BGS, with water levels being variable across the Site. With the planned excavation depth of 12 m BGS and an excavation size of 60 m x 55 m, it is expected that construction dewatering will be required, as will EASR registration. Dewatering of groundwater alone is expected to be minimal (less than 100,000 L/day), absent of permeable features not characterized at the Site so far. Total pumping rates associated with dewatering will vary according to meteorological conditions and the ability of the contractor to control surface and shallow groundwater flows from entering the excavation.

Based on the groundwater quality results presented in Section 4, it is anticipated that discharge water generated during dewatering will exceed acceptable limits of VOCs, PAHs, and zinc under the City of Ottawa Sewer Use criteria. The preferred alternative for discharge of water during construction dewatering is to treat the water on-site and discharge to the City of Ottawa combined sewer through a Sewer Use Agreement. Treatment would be conducted by a mobile treatment unit with a mobile environmental

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

compliance approval (ECA) and discharge to the combined sewer must be in compliance with the Sewer Use Agreement. The following are additional considerations related to water management and treatment:

- Considering the relatively low permeability of the rock and the likely low flows of groundwater into the excavation, it may be worth considering methods to separate storm water, which presumably will be free of VOCs, from groundwater.
- Light Non-Aqueous Phase Liquid (LNAPL) has been observed in four wells at the Site. Dense Non-Aqueous Phase Liquid (DNAPL) has not been observed in any monitoring well on the Site (Stantec, 2025¹). The presence of LNAPL or DNAPL within the excavation may complicate treatment and should be considered during design of the dewatering and water treatment system.
- Water quality monitoring and testing frequency must be completed in accordance with the Sewer Use Agreement and must meet the limits of the City of Ottawa By-Law 2025-94. It is anticipated that, at a minimum, a sample of the treated water will be required prior to first discharge (24-hour rush sample) for the full subset of analytical parameters provided in By-Law 2025-94. Confirmation that hourly and daily volume limits have not been exceeded may also be required, along with periodic reporting of results to the City's Water and Sewer Services group.
- If the preferred alternative cannot be used, discharge water can be contained within holding tanks and removed off-site to a licensed facility with an MECP ECA permitted to receive this water.

We trust this memo meets your current requirements. Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Stantec Consulting Ltd.



Digitally signed by
Healey, Allison
Date: 2026.04.30
16:28:35 -04'00'



Date: 2026.04.30
16:23:51-04'00'

Allison Healey M.Sc., P.Geo.
Hydrogeologist
Phone: 519-404-3089
allison.healey@stantec.com

Ant West Ph.D., P.Eng.
Senior Groundwater Modeler
Phone: 613-707-6087
ant.west@stantec.com

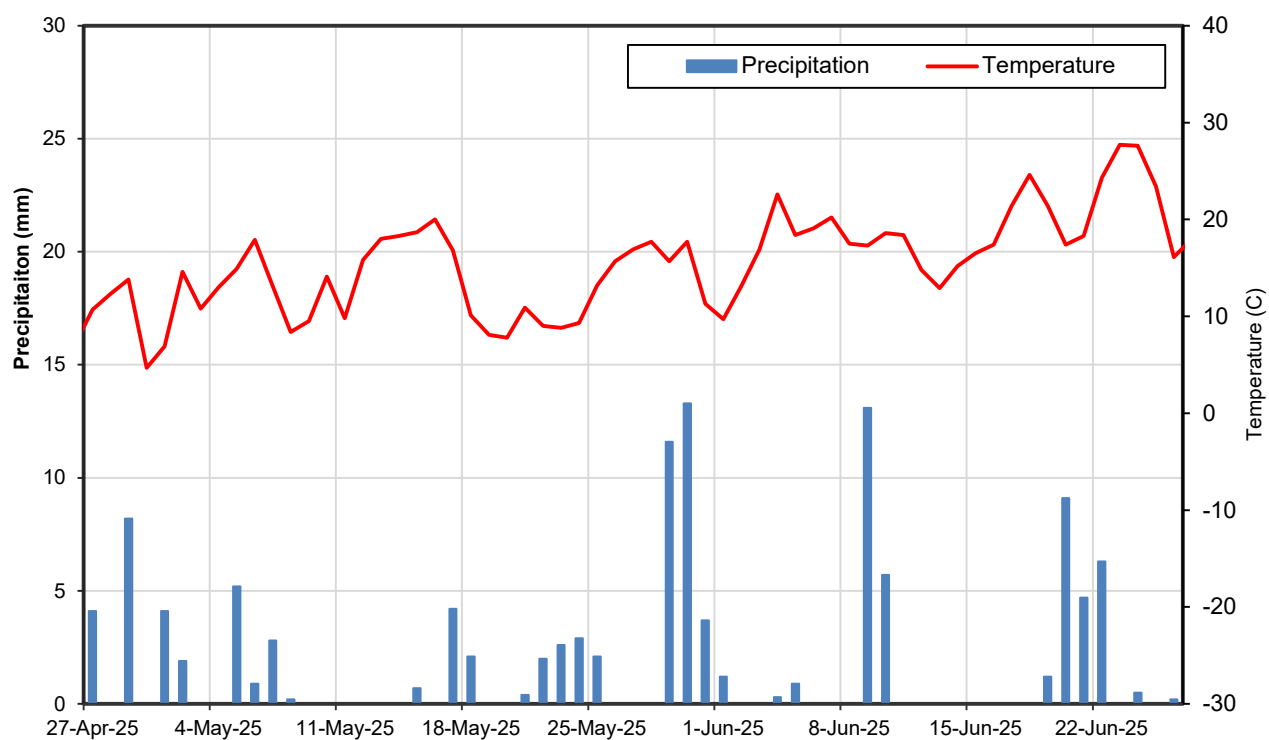
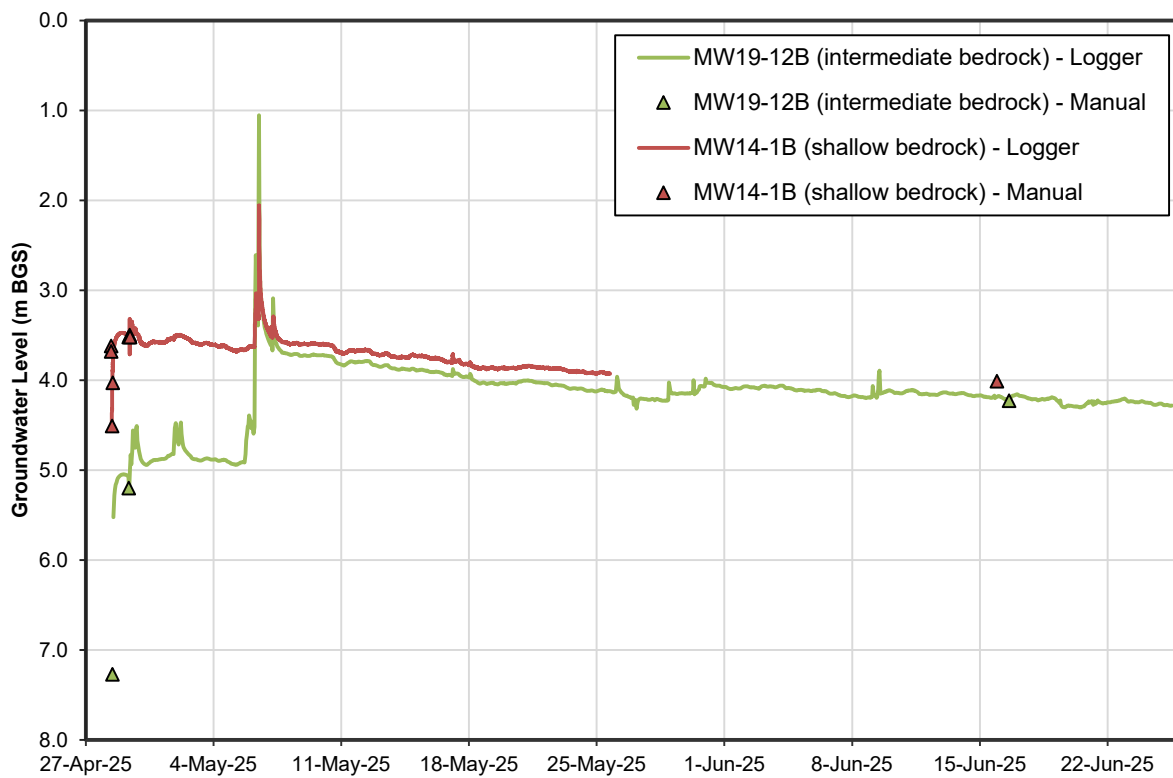
Attachments:

- Appendix A Figures
- Appendix B Tables
- Appendix C Borehole Logs
- Appendix D Hydraulic Conductivity Testing

April 30, 2026
Kyle Kazda, MBA

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Appendix A Figures



Notes:
 BGS: below ground surface
 Climate data provided by the Ottawa International Airport

Client/Project
 Parkdale Redevelopment
 Hydrogeological Investigation
 Taggart Realty Management

Figure No.
 2

Title
 Hydrograph
 MW14-1B, MW19-12B



April 30, 2026
Kyle Kazda, MBA

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Appendix B Tables

Table 1
2025 Groundwater Monitoring Wells
Taggart Realty Redevelopment

Monitoring Location	Coordinates		Monitoring Date (dd-mmm-yy)	Depth Classification	Screened Interval (m BGS)	Stick up (m AGS)	Ground Surface Elevation (m ASL)	Top of Pipe Elevation (m ASL)	Water Level Elevation (m ASL)	Water Level Depth (m BTOP)	Water Level Depth (m BGS)	Hydraulic Conductivity (m/s) (Stantec, 2025)
	Easting	Northing										
BH1	442832	5027891	18-Jun-25	Deep	16.4 - 17.9	-	NS	62.37	NC	21.56	Dry	NM
E3	442843.7	5027888	16-Jun-25	Intermediate	2.5 - 11.02	-	NS	62.66	56.29	6.37	NC	NM
MW00-4	442810.2	5027888	18-Jun-25	Shallow	1.4 - 2.9	0.10	62.02	62.12	60.24	1.88	1.78	NM
MW00-6	442798.1	5027883	-	Shallow	1.67 - 3.17	-0.21	62.13	61.92	NC	NM	NC	NM
MW01-10	442839.9	5027870	17-Jun-25	Shallow	1.1 - 4.29	-0.08	62.59	62.51	60.33	2.18	2.10	NM
MW05-4	442816	5027892	18-Jun-25	Shallow	4.6 - 6.04	0.06	62.03	62.09	58.45	3.64	3.58	NM
MW05-4A	442817	5027894	18-Jun-25	Intermediate	6.2 - 9.1	0.06	62.05	62.11	56.9	5.21	5.15	NM
MW08-31A	442820.4	5027880	18-Jun-25	Shallow	3.0 - 6.0	0.82	61.98	62.80	57.55	5.25	4.43	NM
MW08-32A	442823.8	5027882	18-Jun-25	Shallow	4.0 - 6.0	0.96	62.03	62.99	58.88	4.11	3.15	NM
MW08-33A	442826.7	5027883	18-Jun-25	Shallow	4.0 - 6.0	-0.06	62.29	62.23	NC	NM	NC	NM
MW08-34	442828.2	5027884	18-Jun-25	Intermediate	3.0 - 8.8	0.09	62.26	62.35	57.05	5.30	5.21	NM
MW14-1A	442835.3	5027878	29-Apr-25 16-Jun-25	Intermediate	9.2 - 12.2	-0.09	62.58	62.49	57.63 57.28	4.86 5.21	4.77 5.12	1.0E-07 3.00E-07
MW14-1B	442835.3	5027879	29-Apr-25 16-Jun-25	Shallow	4.2 - 7.2	-0.08	62.57	62.49	58.97 58.48	3.52 4.01	3.44 3.93	6.00E-06
MW14-2	442838.5	5027872	17-Jun-25	Intermediate	9.1 - 12.1	-	NS	NS	NC	6.49	Dry	NM
MW16-01	442840.6	5027877	16-Jun-25	Deep	19 - 22	-0.08	62.67	62.59	58.88	3.71	3.63	NM
MW19-12A	442838.3	5027866	17-Jun-25	Deep	15.2 - 18.3	-	63.04	NS	NC	4.19	NC	NM
MW19-12B	442838.3	5027866	29-Apr-25 17-Jun-25	Intermediate	9.1 - 12.2	-	63.04	NS	NC NC	5.20 4.23	NC NC	2.00E-07
MW19-13A	442839.4	5027882	17-Jun-25	Deep	15.3 - 18.3	-	62.66	NS	NC	NM	NC	NM
MW19-13B	442839.4	5027882	17-Jun-25	Intermediate	8.6 - 11.6	-	62.66	NS	NC	NM	NC	NM
MW25-01	442843.1	5027862	17-Jun-25	Deep	9.2 - 12.3	-0.15	62.74	62.59	57.17	5.42	5.57	NM
MW25-02	442838.5	5027909	18-Jun-25	Shallow	1.6 - 4.7	-0.1	62.34	62.24	60.30	1.94	2.04	NM
MW25-03	442843.4	5027861	17-Jun-25	Shallow	1.9 - 5.0	-0.07	62.78	62.71	60.37	2.34	2.41	NM
MW25-04	442852	5027876	16-Jun-25	Shallow	1.6 - 2.7	-0.11	62.92	62.81	60.62	2.19	2.30	NM
MW25-05	442827.9	5027862	16-Jun-25	Shallow	1.9 - 5.0	-0.05	62.46	62.41	60.36	2.05	2.10	NM

Notes:
m BTOP Metres below top of pipe
m BGS Metres below ground surface
m ASL Metres above sea level
m/s Meters per second
NS Not Surveyed
NC Not Calculable
NM Not Monitored

Table 2
Summary of Groundwater Analytical Results
Taggart Realty Redevelopment

Sample Location			BH1	E3		MW00-4		MW00-6		MW01-10			MW05-4		MW05-4A		MW08-31A		MW08-32A		
Sample Date			18-Jun-25	29-Jun-23	16-Jun-25	28-Jun-23	18-Jun-25	29-Jun-23	5-Aug-25	29-Jun-23	29-Jun-23	17-Jun-25	28-Jun-23	18-Jun-25	28-Jun-23	18-Jun-25	30-Jun-23	18-Jun-25	30-Jun-23	18-Jun-25	
Sample ID			BH1	E3	E3	MW00-4	MW00-4	MW00-6	MW00-6	MW01-10	QC-02	MW01-10	MW05-4	MW05-4	MW05-4A	MW05-4A	MW08-31A	MW08-31A	MW08-32A	MW08-32A	
Sampling Company			STANTEC	GGM	STANTEC	GGM	STANTEC	GGM	STANTEC	GGM	GGM	STANTEC	GGM	STANTEC	GGM	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	
Laboratory Work Order			2525382	2326467	2525069	2326467	2525382	2326467	2532120	2326467	2326467	2525246	2326467	2525382	2326467	2525382	2326529	2525382	2326529	2525382	
Laboratory Sample ID			2525382-02	2326467-12	2525069-02	2326467-03	2525382-07	2326467-09	2532120-01	2326467-07	2326467-08	2525246-04	2326467-02	2525382-08	2326467-01	2525382-09	2326529-05	2525382-06	2326529-06	2525382-05	
Sample Type	Units	Ottawa									RPD (%)										
General Chemistry																					
Chloride	mg/L	n/v	-	1,120	-	4	-	161	-	187	258	32%	-	266	-	1,150	-	201	-	164	-
Cyanide (Free)	µg/L	2,000 ^A 20 ^B	-	<2	-	<2	-	<2	-	<2	<2	nc	-	<2	-	<2	-	<2	-	<2	-
pH, lab	S.U.	5.5-12.0 ^A 6.0-9.0 ^B	-	7.3	-	8.1	-	8.0	-	8.1	7.9	3%	-	7.8	-	7.7	-	8.1	-	7.7	-
Petroleum Hydrocarbons																					
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	-	<25	-	<25	-	<25	804	<25	<25	nc	38,100 VX	<25	-	<25	-	<25	-	<25	14,000
PHC F2 (>C10-C16 range)	µg/L	n/v	-	359	-	<100	-	<100	<100	<100	918	nc	622,000	<100	-	<100	-	<100	-	640	897
PHC F3 (>C16-C34 range)	µg/L	n/v	-	1,170	-	<100	-	<100	<100	687	3,610	136%	498,000	<100	-	<100	-	<100	-	1,060	1,450
PHC F4 (>C34-C50 range)	µg/L	n/v	-	471	-	<100	-	<100	<100	616	1,730	95%	235,000 GA	<100	-	<100	-	<100	-	585	442
Metals, Dissolved																					
Antimony	µg/L	5,000 ^A	-	<0.5	-	0.5	-	0.6	-	1.3	1.2	nc	-	<0.5	-	<0.5	-	1.4	-	<0.5	-
Arsenic	µg/L	1,000 ^A 20 ^B	-	4	-	<1	-	<1	-	<1	<1	nc	-	<1	-	<1	-	14	-	<1	-
Barium	µg/L	n/v	-	2,690	-	74	-	109	-	87	61	35%	-	817	-	156	-	54	-	100	-
Beryllium	µg/L	n/v	-	<0.5	-	<0.5	-	<0.5	-	<0.5	<0.5	nc	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	25,000 ^A	-	844	-	59	-	141	-	165	161	2%	-	194	-	483	-	675	-	38	-
Cadmium	µg/L	20 ^A 8 ^B	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	nc	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Chromium	µg/L	5,000 ^A 70 ^B	-	<1	-	<1	-	<1	-	<1	<1	nc	-	<1	-	<1	-	<1	-	<1	-
Cobalt	µg/L	5,000 ^A	-	0.9	-	<0.5	-	1.2	-	6.4	<0.5	nc	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	3,000 ^A 40 ^B	-	<0.5	-	21.0	-	4.4	-	5.8	5.9	2%	-	2.3	-	0.6	-	2.0	-	1.3	-
Lead	µg/L	5,000 ^A 120 ^B	-	<0.1	-	0.2	-	<0.1	-	0.1	0.1	nc	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	5,000 ^A	-	1.9	-	2.0	-	3.6	-	10.4	10.5	1%	-	2.8	-	2.4	-	130	-	2.5	-
Nickel	µg/L	3,000 ^A 80 ^B	-	2	-	2	-	2	-	10	3	nc	-	1	-	2	-	<1	-	2	-
Selenium	µg/L	5,000 ^A 20 ^B	-	2	-	<1	-	<1	-	2	<1	nc	-	<1	-	<1	-	<1	-	<1	-
Silver	µg/L	5,000 ^A 120 ^B	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	nc	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	n/v	-	704,000	-	9,020	-	101,000	-	182,000	180,000	1%	-	121,000	-	570,000	-	425,000	-	40,600	-
Thallium	µg/L	n/v	-	<0.1	-	<0.1	-	0.4	-	0.3	0.3	nc	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Uranium	µg/L	n/v	-	0.4	-	0.2	-	0.9	-	0.6	0.6	0%	-	0.1	-	0.6	-	0.6	-	0.3	-
Vanadium	µg/L	5,000 ^A	-	<0.5	-	<0.5	-	<0.5	-	<0.5	<0.5	nc	-	0.8	-	<0.5	-	<0.5	-	<0.5	-
Zinc	µg/L	3,000 ^A 40 ^B	-	<5	-	<5	-	<5	-	<5	<5	nc	-	<5	-	<5	-	<5	-	<5	-
Metals, Total																					
Antimony	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,000 ^A 20 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	25,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	20 ^A 8 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	5,000 ^A 70 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1 ^A 0.4 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	3,000 ^A 80 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	5,000 ^A 20 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																					
Acenaphthene	µg/L	100 ^A	-	0.13	-	<0.05	-	<0.05	<0.05	<1.00	<1.00	nc	<25.0 GEN9	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Acenaphthylene	µg/L	100 ^A	-	<0.05	-	<0.05	-	<0.05	<0.05	<1.00	<1.00	nc	<25.0 GEN9	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Anthracene	µg/L	n/v	-	0.05	-	<0.01	-	<0.01	<0.01	<0.20	<0.20	nc	20.2	<0.01	-	<0.01	-	<0.01	-	<0.01	<0.01
Benzo(a)anthracene	µg/L	n/v	-	0.10	-	<0.01	-	<0.01	<0.01	3.64	5.38	39%	53.9	<0.01	-	<0.01	-	<0.01	-	<0.01	<0.01
Benzo(a)pyrene	µg/L	n/v	-	0.07	-	<0.01	-	<0.01	<0.01	<0.20	<0.20	nc	41.6	<0.01	-	<0.01	-	<0.01	-	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v	-	0.05	-	<0.05	-	<0.05	<0.05	<1.00	5.08	nc	65.7	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	-	<0.05	-	<0.05	-	<0.05	<0.05	2.82	2.87	nc	<25.0 GEN9	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	-	<0.05	-	<0.05	-	<0.05	<0.05	<1.00	1.84	nc	27.2	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Chrysene	µg/L	n/v	-	0.07	-	<0.05	-	<0.05	<0.05	3.31	5.05	nc	82.4	<0.05	-	<0.05	-	<0.05	-	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	-	<0.05	-	<0.05	-	<0.05	<0.05	<1.00	<1.00	nc	<25.0 GEN9	<0.05	-	<0.0					

Table 2
Summary of Groundwater Analytical Results
Taggart Realty Redevelopment

Sample Location			BH1	E3		MW00-4		MW00-6		MW01-10			MW05-4		MW05-4A		MW08-31A		MW08-32A			
Sample Date			18-Jun-25	29-Jun-23	16-Jun-25	28-Jun-23	18-Jun-25	29-Jun-23	5-Aug-25	29-Jun-23	29-Jun-23	17-Jun-25		28-Jun-23	18-Jun-25	28-Jun-23	18-Jun-25	30-Jun-23	18-Jun-25	30-Jun-23	18-Jun-25	
Sample ID			BH1	E3	E3	MW00-4	MW00-4	MW00-6	MW00-6	MW01-10	QC-02	RPD	MW01-10	MW05-4	MW05-4	MW05-4A	MW05-4A	MW08-31A	MW08-31A	MW08-32A	MW08-32A	
Sampling Company			STANTEC	PARACEL	STANTEC	PARACEL	STANTEC	PARACEL	STANTEC	PARACEL	GGM	(%)	STANTEC	PARACEL	STANTEC	GGM	STANTEC	STANTEC	PARACEL	STANTEC	STANTEC	
Laboratory			PARACEL	PARACEL	STANTEC	PARACEL	STANTEC	PARACEL	STANTEC	PARACEL	GGM		PARACEL	PARACEL	STANTEC	GGM	STANTEC	STANTEC	PARACEL	STANTEC	STANTEC	
Laboratory Work Order			2525382	2326467	2525069	2326467	2525382	2326467	2532120	2326467	2326467-09		2525246	2326467	2525382	2326467	2525382	2326529	2525382	2326529	2525382	
Laboratory Sample ID			2525382-02	2326467-12	2525069-02	2326467-03	2525382-07	2326467-09	2532120-01	2326467-07			2525246-04	2326467-02	2525382-08	2326467-01	2525382-09	2326529-05	2525382-06	2326529-06	2525382-05	
Sample Type	Units	Ottawa																				
Volatile Organic Compounds																						
Acetone	µg/L	5,000 ^A	<5.0	12,600 ^A	26.6	<5.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Benzene	µg/L	10 ^A 2 ^B	<0.5	297 ^{AB}	<0.5	<0.5	6.2 ^B	<0.5	4.6 ^B	<0.5	nc	3.8 ^B	19.1 ^{AB}	1.0	<0.5	1.5	371 ^{AB}	1,040 ^{AB}	3.1 ^B	44.5 ^{AB}	<5.0	
Bromodichloromethane	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Bromoform (Tribromomethane)	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Bromomethane (Methyl bromide)	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	100 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chlorobenzene (Monochlorobenzene)	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	4.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Chloroform (Trichloromethane)	µg/L	100 ^A 2 ^B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dibromochloromethane	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorobenzene, 1,2-	µg/L	100 ^A 5, 6 ^B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorobenzene, 1,3-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorobenzene, 1,4-	µg/L	100 ^A 6, 8 ^B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorodifluoromethane (Freon 12)	µg/L	100 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dichloroethane, 1,1-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichloroethane, 1,2-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichloroethane, 1,1-	µg/L	10 ^A	<0.5	7.0	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	nc	34.8 ^A	5.9	1.2	<0.5	1.8	<0.5	13.4 ^A	<0.5	50.3 ^A	<0.5	
Dichloroethane, cis-1,2-	µg/L	100 ^A 5, 6 ^B	<0.5	16,300 ^{AB}	59.1 ^B	65.8 ^B	87.5 ^B	27.1 ^B	4,380 ^{AB}	718 ^{AB}	80%	62,200 ^{AB}	10,700 ^{AB}	5,710 ^{AB}	189 ^{AB}	1,130 ^{AB}	62.6 ^B	12,100 ^{AB}	897 ^{AB}	78,900 ^{AB}	<0.5	
Dichloroethane, trans-1,2-	µg/L	100 ^A	<0.5	137 ^A	5.8	8.9	3.9	<0.5	11.4	10.0	55%	272 ^A	48.8	29.4	3.3	7.2	9.1	119 ^A	8.4	570 ^A	<0.5	
Dichloropropane, 1,2-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichloropropene, cis-1,3-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichloropropene, trans-1,3-	µg/L	100 ^A 5, 6 ^B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	µg/L	100 ^A 2 ^B	<0.5	18.5 ^B	13.0 ^B	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	2.2 ^B	<0.5	<0.5	<0.5	1.9	2.5 ^B	1.7	36.7 ^B	<0.5	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	100 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	100 ^A	<5.0	162 ^A	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Methyl Isobutyl Ketone (MIBK)	µg/L	100 ^A	<5.0	19.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Methyl tert-butyl ether (MTBE)	µg/L	100 ^A	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	nc	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Methylene Chloride (Dichloromethane)	µg/L	100 ^A 5, 2 ^B	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Styrene	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Tetrachloroethane, 1,1,1,2-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Tetrachloroethane, 1,1,2,2-	µg/L	100 ^A 4, 4 ^B	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Tetrachloroethene (PCE)	µg/L	100 ^A 4, 4 ^B	0.6	108 ^{AB}	4.2	3.3	<0.5	15.9 ^B	426 ^{AB}	592 ^{AB}	167%	109,000 ^{AB}	1.2	9.1 ^B	4.6 ^B	9.9 ^B	2.0	<0.5	23.0 ^B	67.6 ^B	<0.5	
Toluene	µg/L	100 ^A 2 ^B	<0.5	544 ^{AB}	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	nc	114 ^{AB}	5.6 ^B	0.8	<0.5	0.6	31.2 ^B	101 ^{AB}	2.3 ^B	79.2 ^B	<0.5	
Trichloroethane, 1,1,1-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichloroethane, 1,1,2-	µg/L	100 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichloroethene (TCE)	µg/L	100 ^A 7, 6 ^B	<0.5	983 ^{AB}	20.7 ^B	1.4	<0.5	5.5	232 ^{AB}	141 ^{AB}	1,120 ^{AB}	155%	53,700 ^{AB}	3.0	13.2 ^B	25.6 ^B	168 ^{AB}	0.6	<0.5	20.8 ^B	148 ^{AB}	
Trichlorofluoromethane (Freon 11)	µg/L	100 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vinyl Chloride	µg/L	10 ^A	<0.5	12,800 ^A	101 ^A	18.8 ^A	97.3 ^A	3.1	1,320 ^A	11.1 ^A	170 ^A	nc	4,160 ^A	2,400 ^A	8.5	55.0 ^A	161 ^A	344 ^A	2,210 ^A	293 ^A	4,190 ^A	
Xylene, m & p-	µg/L	n/v	<0.5	40.8	11.4	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	20.0	
Xylene, o-	µg/L	n/v	<0.5	20.1	16.1	<0.5	<0.5	<0.5	<0.5	<0.5	nc											

Table 2
Summary of Groundwater Analytical Results
Taggart Realty Redevelopment

Sample Location			MW08-33A				MW08-34		MW14-1A		MW14-1B				MW14-2		MW16-01	MW16-1	MW19-12A	
Sample Date			30-Jun-23	18-Jun-25	18-Jun-25		30-Jun-23	18-Jun-25	30-Jun-23	16-Jun-25	30-Jun-23	16-Jun-25	16-Jun-25	29-Jun-23	17-Jun-25	29-Jun-23	16-Jun-25	29-Jun-23	17-Jun-25	
Sample ID			MW08-33A	MW08-33A	QC-02		MW08-34	MW08-34	MW14-1A	MW14-1A	MW14-1B	MW14-1B	QC-01	MW14-2	MW14-2	MW14-1B	MW16-01	MW16-01	MW19-12A	MW19-12A
Sampling Company			STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	GGM	STANTEC	GGM	STANTEC	STANTEC	GGM	STANTEC
Laboratory			PARACEL	PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326529	2525382	2525382		2326529	2525382	2326529	2525069	2326529	2525069	2525069	2326467	2525246	2326467	2326467	2525069	2326467	2525246
Laboratory Sample ID			2326529-07	2525382-04	2525382-10	RPD	2326529-08	2525382-03	2326529-03	2525069-05	2326529-04	2525069-04	2525069-07	2326467-10	2525246-03	2326467-11	2525069-03	2326467-04	2525246-05	
Sample Type	Units	Ottawa			Field Duplicate	(%)							Field Duplicate	(%)						
General Chemistry																				
Chloride	mg/L	n/v	565	-	-	-	801	-	916	-	609	-	-	1,670	-	568	-	-	3,190	-
Cyanide (Free)	µg/L	2,000 ^A 20 ^B	<2	-	-	-	<2	-	<2	-	<2	-	-	<2	-	<2	-	-	<2	-
pH, lab	S.U.	5.5-12.0 ^A 6.0-9.0 ^B	7.8	-	-	-	7.8	-	7.0	-	7.0	-	-	7.6	-	7.9	-	-	7.5	-
Petroleum Hydrocarbons																				
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<125,000	-	-	-	<25	-	<25	-	<125,000	14,400 VX	13,900 VX	4%	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	-	-	-	<100	-	513	-	63,600	<100	833	nc	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	<100	-	-	-	217	-	2,720	-	6,700	<100	617	nc	<100	-	<100	-	<100	-
PHC F4 (>C34-C50 range)	µg/L	n/v	<100	-	-	-	200	-	1,410	-	39,100	<100	560	nc	<100	-	<100	-	<100	-
Metals, Dissolved																				
Antimony	µg/L	5,000 ^A	8.0	-	-	-	<0.5	-	0.9	-	0.7	-	-	<0.5	-	6.0	-	-	<0.5	-
Arsenic	µg/L	1,000 ^A 20 ^B	4	-	-	-	<1	-	<1	-	<1	-	-	<1	-	17	-	-	3	-
Barium	µg/L	n/v	51	-	-	-	231	-	543	-	205	-	-	603	-	76	-	-	708	-
Beryllium	µg/L	n/v	<0.5	-	-	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	-	<0.5	-	-	<0.5	-
Boron	µg/L	25,000 ^A	1,840	-	-	-	229	-	199	-	153	-	-	667	-	992	-	-	1,160	-
Cadmium	µg/L	20 ^A 8 ^B	0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-
Chromium	µg/L	5,000 ^A 70 ^B	<1	-	-	-	<1	-	<1	-	<1	-	-	<1	-	<1	-	-	<1	-
Cobalt	µg/L	5,000 ^A	8.8	-	-	-	<0.5	-	0.8	-	0.7	-	-	<0.5	-	0.7	-	-	<0.5	-
Copper	µg/L	3,000 ^A 40 ^B	3.8	-	-	-	<0.5	-	1.8	-	1.3	-	-	0.8	-	<0.5	-	-	1.5	-
Lead	µg/L	5,000 ^A 120 ^B	0.2	-	-	-	<0.1	-	<0.1	-	0.1	-	-	0.2	-	<0.1	-	-	<0.1	-
Molybdenum	µg/L	5,000 ^A	13.7	-	-	-	0.7	-	1.4	-	1.4	-	-	<0.5	-	0.6	-	-	5.4	-
Nickel	µg/L	3,000 ^A 80 ^B	59	-	-	-	1	-	3	-	3	-	-	1	-	16	-	-	2	-
Selenium	µg/L	5,000 ^A 20 ^B	<1	-	-	-	<1	-	<1	-	<1	-	-	1	-	5	-	-	<1	-
Silver	µg/L	5,000 ^A 120 ^B	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-
Sodium	µg/L	n/v	445,000	-	-	-	424,000	-	293,000	-	293,000	-	-	632,000	-	1,230,000	-	-	1,250,000	-
Thallium	µg/L	n/v	0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-
Uranium	µg/L	n/v	14.2	-	-	-	0.3	-	0.1	-	0.7	-	-	0.1	-	0.1	-	-	5.8	-
Vanadium	µg/L	5,000 ^A	3.1	-	-	-	<0.5	-	<0.5	-	1.5	-	-	1.5	-	21.3	-	-	0.6	-
Zinc	µg/L	3,000 ^A 40 ^B	118 ^B	-	-	-	<5	-	<5	-	9	-	-	<5	-	<5	-	-	<5	-
Metals, Total																				
Antimony	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,000 ^A 20 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	25,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	20 ^A 8 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	5,000 ^A 70 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1 ^A 0.4 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	3,000 ^A 80 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	5,000 ^A 20 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	5,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	100 ^A	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	<0.05	nc	<0.25	-	<0.05	-	<0.05	-
Acenaphthylene	µg/L	100 ^A	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	<0.05	nc	<0.25	-	<0.05	-	<0.05	-
Anthracene	µg/L	n/v	<0.01	-	-	-	<0.01	-	<0.01	-	2.72	<0.20 GEN9	0.03	nc	0.45	-	<0.01	-	<0.01	-
Benzo(a)anthracene	µg/L	n/v	<0.01	-	-	-	<0.01	-	<0.01	-	1.33	0.24	0.05	nc	0.93	-	<0.01	-	<0.01	-
Benzo(a)pyrene	µg/L	n/v	<0.01	-	-	-	<0.01	-	<0.01	-	0.86	<0.20 GEN9	0.04	nc	0.98	-	<0.01	-	<0.01	-
Benzo(b)fluoranthene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	0.06	nc	1.56	-	<0.05	-	<0.05	-
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	1.03	<1.00 GEN9	<0.05	nc	1.48	-	<0.05	-	<0.05	-
Benzo(k)fluoranthene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	<0.05	nc	0.64	-	<0.05	-	<0.05	-
Chrysene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	0.07	nc	0.99	-	<0.05	-	<0.05	-
Dibenzo(a,h)anthracene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	<0.05	nc	0.27	-	<0.05	-	<0.05	-
Fluoranthene	µg/L	n/v	<0.01	-	-	-	<0.01	-	0.13	-	1.89	0.42	0.13	nc	2.09	-	<0.05	-	<0.01	-
Fluorene	µg/L	100 ^A	<0.05	-	-	-	<0.05	-	<0.05	-	1.11	<1.00 GEN9	0.07	nc	<0.25	-	<0.05	-	<0.05	-
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.05	-	-	-	<0.05	-	<0.05	-	<1.00	<1.00 GEN9	<0.05	nc	0.85	-	<0.05	-	<0.05	-
Methylnaphthalene (Total)	µg/L	100 ^A	0.38	-	-	-	<0.10	-	1.52	-	15.9	<2.00 GEN9	1.01	nc						

Table 2
Summary of Groundwater Analytical Results
Taggart Realty Redevelopment

Sample Location			MW08-33A			MW08-34		MW14-1A		MW14-1B			MW14-2		MW16-01	MW16-1	MW19-12A			
Sample Date			30-Jun-23	18-Jun-25	18-Jun-25	30-Jun-23	18-Jun-25	30-Jun-23	16-Jun-25	30-Jun-23	16-Jun-25	16-Jun-25	29-Jun-23	17-Jun-25	29-Jun-23	16-Jun-25	29-Jun-23	17-Jun-25		
Sample ID			MW08-33A	MW08-33A	QC-02	MW08-34	MW08-34	MW14-1A	MW14-1A	MW14-1B	MW14-1B	QC-01	MW14-2	MW14-2	MW16-01	MW16-1	MW19-12A	MW19-12A		
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	GGM	STANTEC	GGM	STANTEC	GGM	STANTEC		
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL		
Laboratory Work Order			2326529	2525382	2525382	2326529	2525382	2326529	2525069	2326529	2525069	2525069	2326467	2525246	2326467	2525069	2326467	2525246		
Laboratory Sample ID			2326529-07	2525382-04	2525382-10	2326529-08	2525382-03	2326529-03	2525069-05	2326529-04	2525069-04	2525069-07	2326467-10	2525246-03	2326467-11	2525069-03	2326467-04	2525246-05		
Sample Type	Units	Ottawa			Field Duplicate	RPD (%)						Field Duplicate	RPD (%)							
Volatile Organic Compounds																				
Acetone	µg/L	5,000 ^A	<25,000	<5.0	<5.0	nc	<5.0	<5.0	2,230	<5.0	<25,000	<5.0	<5.0	nc	<5.0	24.9	3,250	<5.0	<5.0	
Benzene	µg/L	10 ^A 2 ^B	<2,500	1,980 ^{AB}	1,400 ^{AB}	nc	2.6 ^B	2.3 ^B	31.6 ^{AB}	67.1 ^{AB}	<2,500	99.8 ^{AB}	112 ^{AB}	12%	1.7	0.9	2.0	0.7	16.8 ^{AB}	12.2 ^{AB}
Bromodichloromethane	µg/L	100 ^A	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform (Tribromomethane)	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane (Methyl bromide)	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	100 ^A	<1,000	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<1,000	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorobenzene (Monochlorobenzene)	µg/L	100 ^A	<2,500	0.6	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform (Trichloromethane)	µg/L	100 ^A 2 ^B	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,2-	µg/L	100 ^A 5, 6 ^B	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,3-	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,4-	µg/L	100 ^A 6, 8 ^B	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	100 ^A	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	100 ^A	<2,500	<0.5	190 ^A	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethane, 1,2-	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloroethane, 1,1-	µg/L	10 ^A	<2,500	151 ^A	<0.5	nc	0.7	2.2	20.0 ^A	80.9 ^A	<2,500	125 ^A	130 ^A	nc	<0.5	0.9	<0.5	<0.5	7.5	6.1
Dichloroethane, cis-1,2-	µg/L	100 ^A 5, 6 ^B	118,000 ^{AB}	78,800 ^{AB}	69,400 ^{AB}	13%	2,000 VOCL ^{AB}	4,920 ^{AB}	17,000 ^{AB}	70,200 ^{AB}	95,000 ^{AB}	78,800 ^{AB}	72,200 ^{AB}	9%	282 ^{AB}	1,240 ^{AB}	13.6 ^B	<0.5	31,400 ^{AB}	13,500 ^{AB}
Dichloroethane, trans-1,2-	µg/L	100 ^A	<2,500	592 ^A	512 ^A	14%	14.0	32.3	153 ^A	172 ^A	<2,500	510 ^A	515 ^A	nc	6.6	2.3	6.0	5.8	242 ^A	343 ^A
Dichloropropane, 1,2-	µg/L	100 ^A	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene, cis-1,3-	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropene, trans-1,3-	µg/L	100 ^A 5, 6 ^B	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	100 ^A 2 ^B	<2,500	33.9 ^B	31.5 ^B	7%	0.6	0.9	63.6 ^B	132 ^{AB}	<2,500	145 ^{AB}	152 ^{AB}	nc	<0.5	<0.5	<0.5	<0.5	1.9	5.5 ^B
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	100 ^A	<1,000	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<1,000	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Hexane (n-Hexane)	µg/L	n/v	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	100 ^A	<25,000	<5.0	<5.0	nc	<5.0	<5.0	115 ^A	<5.0	<25,000	<5.0	<5.0	nc	<5.0	8.1	167 ^A	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone (MIBK)	µg/L	100 ^A	<25,000	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<25,000	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	100 ^A	<10,000	<2.0	<2.0	nc	<2.0	<2.0	<2.0	<2.0	<10,000	<2.0	<2.0	nc	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride (Dichloromethane)	µg/L	100 ^A 5, 2 ^B	<25,000	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<25,000	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	100 ^A 4, 4 ^B	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane (PCE)	µg/L	100 ^A 4, 4 ^B	29,800 ^{AB}	18,700 ^{AB}	20,000 ^{AB}	nc	39.9 ^B	2.0	7,020 ^{AB}	2,720 ^{AB}	154,000 ^{AB}	19,100 ^{AB}	20,200 ^{AB}	6%	13.7 ^B	8.4 ^B	12.3 ^B	<0.5	12.1 ^B	995 ^{AB}
Toluene	µg/L	100 ^A 2 ^B	<2,500	1,520 ^{AB}	1,120 ^{AB}	nc	1.7	4.4 ^B	230 ^{AB}	285 ^{AB}	<2,500	503 ^{AB}	522 ^{AB}	nc	<0.5	<0.5	1.9	<0.5	14.3 ^B	<0.5
Trichloroethane, 1,1,1-	µg/L	100 ^A	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethane, 1,1,2-	µg/L	100 ^A	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE)	µg/L	100 ^A 7, 6 ^B	22,000 ^{AB}	25,700 ^{AB}	23,100 ^{AB}	nc	16.0 ^B	19.7 ^B	3,440 ^{AB}	1,720 ^{AB}	24,800 ^{AB}	28,100 ^{AB}	25,400 ^{AB}	10%	4.7	5.6	4.1	<0.5	48.3 ^B	154 ^{AB}
Trichlorofluoromethane (Freon 11)	µg/L	100 ^A	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	10 ^A	<2,500	4,590 ^A	4,930 ^A	7%	274 VOCL ^A	1,060 ^A	4,520 ^A	12,300 ^A	<2,500	10,800 ^A	10,600 ^A	2%	285 ^A	<0.5	<0.5	<0.5	6,020 ^A	3,950 ^A
Xylene, m & p-	µg/L	n/v	<2,500	56.2	85.8	42%	0.6	<0.5	120	127	<2,500	225	242	nc	<0.5	<0.5	<0.5	<0.5	3.9	12.2
Xylene, o-	µg/L	n/v	<2,500	71.9	59.8	18%	<0.5	<0.5	66.1	59.7	<2,500	81.0	116	36%	<0.5	<0.5	<0.5	<0.5	2.7	6.3
Xylenes, Total	µg/L	100 ^A 4, 4 ^B	<2,500	128 ^{AB}	146 ^{AB}	13%	0.6	<0.5	186 ^{AB}	187 ^{AB}	<2,500	306 ^{AB}	358 ^{AB}	16%	<0.5	<0.5	<0.5	<0.5	6.7 ^B	18.4 ^B

See notes on last page.

Table 2
Summary of Groundwater Analytical Results
Taggart Realty Redevelopment

Sample Location			MW19-12B			MW19-13A		MW19-13B		MW25-01	MW25-02	MW25-03	MW25-04	MW25-05	TB-01	FIELD BLANK		TRIP BLANK		
Sample Date			29-Jun-23	29-Jun-23	17-Jun-25	30-Jun-23	17-Jun-25	30-Jun-23	17-Jun-25	17-Jun-25	18-Jun-25	17-Jun-25	16-Jun-25	16-Jun-25	31-Jul-25	30-Jun-23	17-Jun-25	20-Jun-23	12-Jun-25	12-Jun-25
Sample ID			MW19-12B	QC-01	MW19-12B	MW19-13A	MW19-13A	MW19-13B	MW19-13B	MW25-01	MW25-02	MW25-03	MW25-04	MW25-05	TB-01	Field Blank	Field Blank	Trip Blank	TRIP BLANK	TRIP BLANK
Sampling Company			GGM	GGM	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467	2525246	2326529	2525246	2326529	2525246	2525246	2525382	2525246	2525069	2525069	2532120	2326529	2525246	2326529	2525069	2525246
Laboratory Sample ID			2326467-05	2326467-06	2525246-06	2326529-01	2525246-07	2326529-02	2525246-08	2525246-02	2525382-01	2525246-01	2525069-06	2525069-01	2532120-02	2326529-10	2525246-10	2326529-09	2525069-08	2525246-09
Sample Type	Units	Ottawa		Field Duplicate	RPD (%)											Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank
General Chemistry																				
Chloride	mg/L	n/v	3,830	4,320	12%	-	862	-	482	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	2,000 ^A 20 ^B	<2	<2	nc	-	<2	-	<2	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	5.5-12.0 ^A 6.0-9.0 ^B	7.5	7.5	0%	-	7.5	-	7.5	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																				
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	nc	1,970 VX	<25	-	<25	-	81	71 VX	<25	3,390 VX	<25	<25	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	26,200	10,600	85%	2,080	<100	-	<100	-	<100	<100	<100	<100	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	36,400	17,100	72%	3,000	<100	-	640	-	<100	<100	<100	<100	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	17,300	8,960	64%	2,220 SSO	<100	-	340	-	<100	<100	<100	<100	-	-	-	-	-	-
Metals, Dissolved																				
Antimony	µg/L	5,000 ^A	<0.5	<0.5	nc	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,000 ^A 20 ^B	<1	<1	nc	-	4	-	2	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	n/v	4,750	4,560	4%	-	659	-	548	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	<0.5	<0.5	nc	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	25,000 ^A	239	237	1%	-	618	-	229	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	20 ^A 8 ^B	<0.1	<0.1	nc	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	5,000 ^A 70 ^B	<1	<1	nc	-	1	-	<1	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	5,000 ^A	<0.5	<0.5	nc	-	<0.5	-	0.5	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	3,000 ^A 40 ^B	1.6	1.4	nc	-	1.6	-	1.9	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	5,000 ^A 120 ^B	<0.1	<0.1	nc	-	0.4	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	5,000 ^A	<0.5	<0.5	nc	-	2.7	-	2.0	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	3,000 ^A 80 ^B	<1	<1	nc	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	5,000 ^A 20 ^B	<1	<1	nc	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5,000 ^A 120 ^B	<0.1	<0.1	nc	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	n/v	1,360,000	1,320,000	3%	-	821,000	-	523,000	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	<0.1	<0.1	nc	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	n/v	0.2	0.2	nc	-	4.4	-	7.9	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	5,000 ^A	0.9	0.9	nc	-	3.8	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	3,000 ^A 40 ^B	<5	<5	nc	-	<5	-	<5	-	-	-	-	-	-	-	-	-	-	-
Metals, Total																				
Antimony	µg/L	5,000 ^A	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,000 ^A 20 ^B	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	n/v	-	-	-	-	-	-	189	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	25,000 ^A	-	-	-	-	-	-	76	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	20 ^A 8 ^B	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	5,000 ^A 70 ^B	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	5,000 ^A	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1 ^A 0.4 ^B	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	5,000 ^A	-	-	-	-	-	-	3.0	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	3,000 ^A 80 ^B	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	5,000 ^A 20 ^B	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5,000 ^A 120 ^B	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	n/v	-	-	-	-	-	-	468,000	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	n/v	-	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	5,000 ^A	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	3,000 ^A 40 ^B	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	100 ^A	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-
Acenaphthylene	µg/L	100 ^A	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	0.07	-	-	-	-	-	-
Anthracene	µg/L	n/v	<1.00	<0.20	nc	0.23	<0.01	-	<0.01	-	0.02	<0.01	0.07	0.04	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	n/v	<1.00	<0.20	nc	0.37	<0.01	-	0.02	-	0.03	<0.01	0.13	0.05	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	n/v	<1.00	<0.20	nc	0.33	<0.01	-	<0.01	-	0.02	<0.01	0.10	0.04	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	n/v	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	0.16	0.06	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	n/v	13.3	3.63	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	0.05	<0.05	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	n/v	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	0.05	<0.05	-	-	-	-	-	-
Chrysene	µg/L	n/v	<5.00	<1.00	nc	0.82	<0.05	-	<0.05	-	<0.05	<0.05	0.13	0.06	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	n/v	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	0.05	<0.05	-	-	-	-	-	-
Fluoranthene	µg/L	n/v	<1.00	<0.20	nc	0.95	<0.01	-	<0.01	-	0.09	<0.01	0.30	0.08	-	-	-	-	-	-
Fluorene	µg/L	100 ^A	<5.00	<1.00	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	0.07	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	n/v	8.52	2.28	nc	<0.50 GEN9	<0.05	-	<0.05	-	<0.05	<0.05	0.07	<0.05	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	100 ^A	<10.0	<2.00	nc	1.68	<0.10	-	<0.10	-	<0.10	<0.10	<0.10	1.16	-	-	-			

April 30, 2026
Kyle Kazda, MBA

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Appendix C Borehole Logs

PROJECT: 13-1122-0009

RECORD OF DRILLHOLE: 14-1A

SHEET 2 OF 2

LOCATION: See Site Plan

DRILLING DATE: September 29, 2014

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: LC-55

DRILLING CONTRACTOR: Downing Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	PENETRATION RATE (mm/min)	FLUSH	COLOUR % RETURN	FR/FX-FRACTURE F-FAULT		SM-SMOOTH		FL-FLEXURED		BC-BROKEN CORE		DIAMETRAL POINT LOAD INDEX (MPa)	NOTES WATER LEVELS INSTRUMENTATION		
									CL-CLEAVAGE		J-JOINT		R-ROUGH		UE-UNEVEN				MB-MECH. BREAK	
									SH-SHEAR		P-POLISHED		ST-STEPPED		W-WAVY				B-BEDDING	
									VN-VEIN		S-SLICKENSIDED		PL-PLANAR		C-CURVED					
RECOVERY		R.Q.D. %	FRACT. INDEX PER 0.3	DISCONTINUITY DATA		HYDRAULIC CONDUCTIVITY														
TOTAL CORE %	SOLID CORE %			DIP w.r.t. CORE AXIS	TYPE AND SURFACE DESCRIPTION	10 ⁶ K _v cm/sec	10 ⁴	10 ³	2	4	6									
10		--- CONTINUED FROM PREVIOUS PAGE ---																		
11	Rotary Drill ING Core	UNIT G6 Fresh, medium grey, fine to medium grained, faintly porous, medium to thickly bedded, massive textured, siliceous Dolostone with grey shaly bedding partings.			C6															
12		UNIT G7 Fresh, medium to dark grey, fine grained, thinly to medium bedded, laminar, mottled to nodular textured, argillaceous Limestone with interbedded medium grey fine to medium grained partly crystalline, stylonitic limestone and minor calcareous siltstone.		11.98	C7														38 mm Diam. PVC #10 Slot Screen	
13		End of Drillhole		12.21															Silica Sand	
14																				
15																				
16																				
17																				
18																				
19																				
20																				

MIS-RCK 001 1311220009.GPJ GAL-MISS.GDT 09/04/15 JEM

DEPTH SCALE

1 : 50



LOGGED: RI

CHECKED: JW

PROJECT: 13-1122-0009

RECORD OF DRILLHOLE: 14-1B

SHEET 1 OF 1

LOCATION: See Site Plan

DRILLING DATE: October 1, 2014

DATUM: Geodetic

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: LC-55

DRILLING CONTRACTOR: Downing Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	PENETRATION RATE (mm/min)	FLUSH	FR/FX-FRACTURE		F-FAULT		SM-SMOOTH		FL-FLEXURED		BC-BROKEN CORE		DIAMETRAL POINT LOAD INDEX (MPa)	NOTES WATER LEVELS INSTRUMENTATION	
								CL-CLEAVAGE		J-JOINT		R-ROUGH		UE-UNEVEN		MB-MECH. BREAK				
								SH-SHEAR		P-POLISHED		ST-STEPPED		W-WAVY		B-BEDDING				
								VN-VEIN		S-SLICKENSIDED		PL-PLANAR		C-CURVED						
RECOVERY		R.Q.D. %		FRACT. INDEX PER 0.3		DISCONTINUITY DATA				HYDRAULIC CONDUCTIVITY										
TOTAL CORE %	SOLID CORE %					TYPE AND SURFACE DESCRIPTION				10 ⁻⁶ K _v cm/sec	10 ⁻⁶ K _v cm/sec	10 ⁻⁶ K _v cm/sec								
0		GROUND SURFACE		0.00																
		Overburden																		Flush Mount Protective Casing
1.70		UNIT G2 Fresh to moderately weathered, medium brownish grey, fine to medium grained, partly crystalline, thinly to medium bedded, lithoclastic and stylolitic Limestone with trace fossil debris.																		Bentonite Seal
2.04		UNIT G3 Fresh, medium to dark grey, very fine grained, thinly bedded, laminar textured, argillaceous Limestone with dark grey shaly partings.																		
					C1															
					C2															
					C3															Silica Sand
					C4															38 mm Diam. PVC #10 Slot Screen
5.57		UNIT G4 Fresh, light to medium grey to medium brownish grey, fine to medium grained, partly crystalline, thinly to medium bedded, stylolitic Limestone with tabular gypsum casts and disseminated gypsum crystals.																		
					C5															
6.74		UNIT G5 Fresh, medium to dark grey, very fine to fine grained, thinly bedded, laminar textured, argillaceous Limestone with occasional shaly partings.																		
7.20		End of Drillhole																		Silica Sand

MIS-RCK 001 1311220009.GPJ GAL-MISS.GDT 09/04/15 JEM

DEPTH SCALE

1 : 50



LOGGED: RI

CHECKED: JW

PROJECT: 18111954

RECORD OF BOREHOLE: 19-12

SHEET 2 OF 2

LOCATION: N 5029401.7 ; E 365050.4

BORING DATE: April 1, 2019

DATUM: CGVD28

SAMPLER HAMMER, 54kg; DROP, 750mm

PENETRATION TEST HAMMER, 54kg; DROP, 750mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES				DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k_v cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT							
								Cu, kPa		nat V. rem V.	+ \ominus U - \ominus	Wp — W — Wl							
10	GeolMachine Symmetric Air-Hammer	-- CONTINUED FROM PREVIOUS PAGE --																	
		BEDROCK																	
11																		25 mm Diam, PVC #10 Slot Screen 'B'	
12																			Silica Sand
13																			Bentonite Seal
14																			
15																			Silica Sand
16																			
17																			32 mm Diam, PVC #10 Slot Screen 'A'
18																			
19			End of Borehole																
20																			

MIS-BHS 001 18111954.GPJ GAL-MIS.GDT 6/26/20 JEM

DEPTH SCALE

1 : 50



LOGGED: ALB

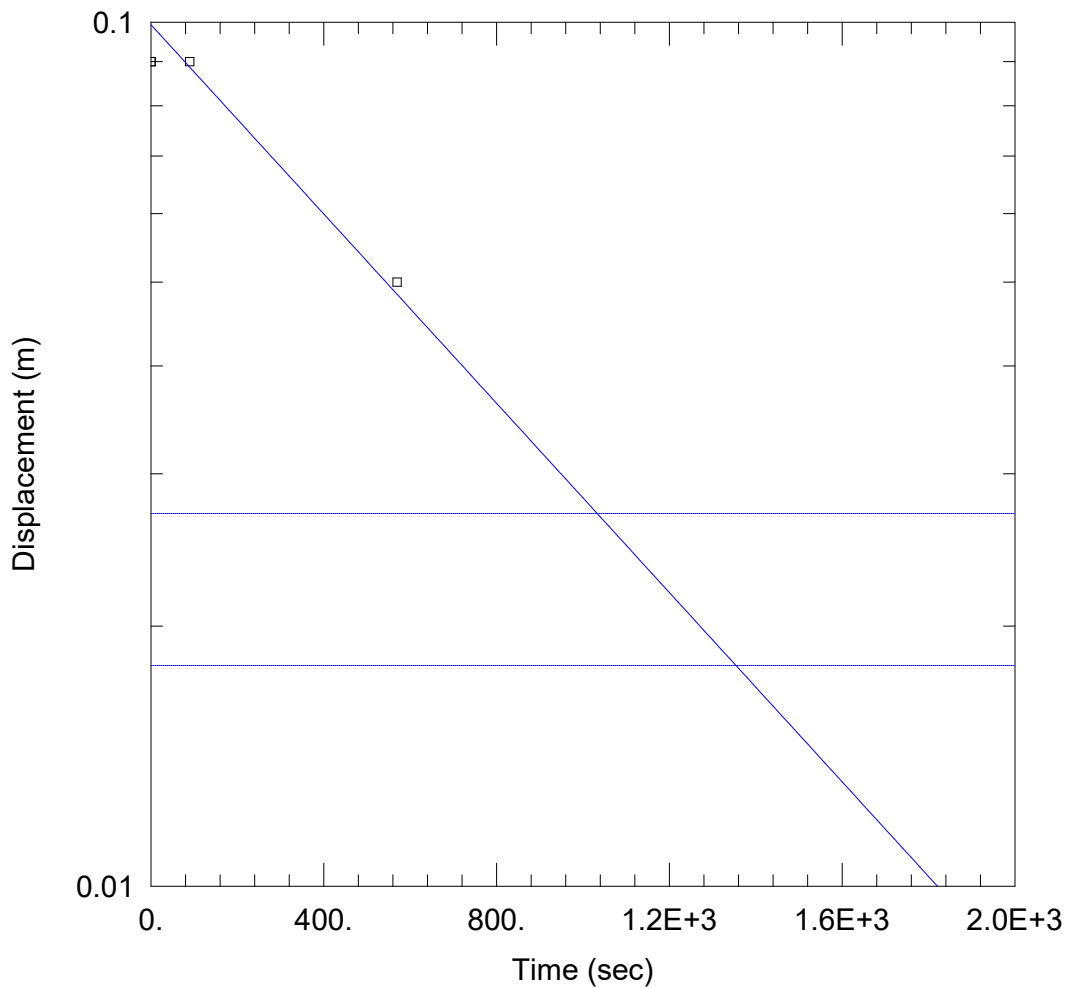
CHECKED: EL

018007

April 30, 2026
Kyle Kazda, MBA

Reference: Hydrogeological Investigation to Support Proposed Parkdale Development, Ottawa, Ontario

Appendix D Hydraulic Conductivity Testing



MW14-1A FALLING HEAD TEST

Data Set: \\...\MW14-1A Falling Head Test_ST_JK.aqt

Date: 06/03/25

Time: 13:04:03

PROJECT INFORMATION

Company: Stantec

Project: 122170424

Location: 233 Armstrong Street, Ottawa

Test Well: MW14-1A

Test Date: April 29, 2025

AQUIFER DATA

Saturated Thickness: 7.11 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW14-1A)

Initial Displacement: 0.09 m

Static Water Column Height: 7.11 m

Total Well Penetration Depth: 7.11 m

Screen Length: 3.05 m

Casing Radius: 0.0191 m

Well Radius: 0.049 m

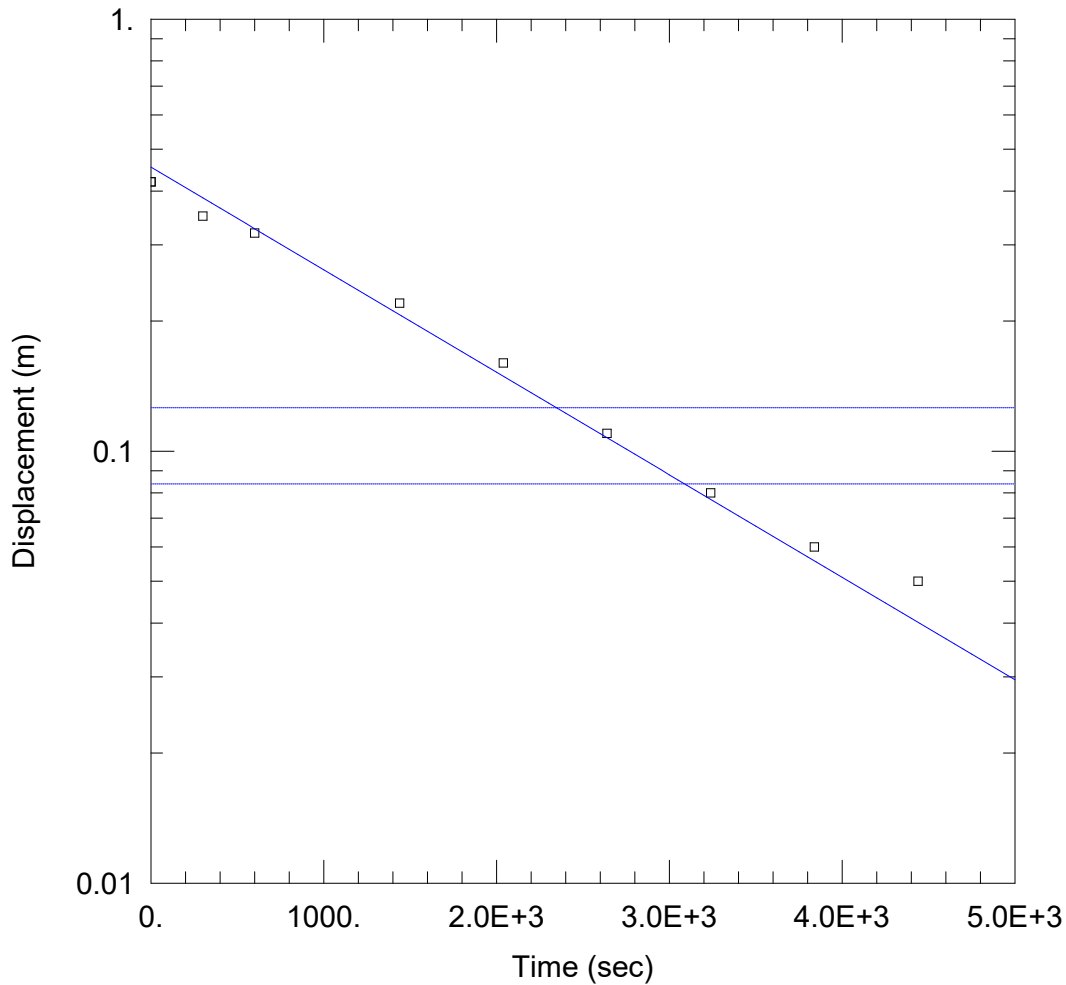
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

K = 3.0E-7 m/sec

y0 = 0.09931 m



MW14-1A RISING HEAD TEST

Data Set: \\...\MW14-1A Rising Head Test_ST_JK.aqt

Date: 06/03/25

Time: 13:03:08

PROJECT INFORMATION

Company: Stantec

Project: 122170424

Location: 233 Armstrong Street, Ottawa

Test Well: MW14-1A

Test Date: April 29, 2025

AQUIFER DATA

Saturated Thickness: 7.11 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW14-1A)

Initial Displacement: 0.42 m

Static Water Column Height: 7.11 m

Total Well Penetration Depth: 7.11 m

Screen Length: 3.05 m

Casing Radius: 0.0191 m

Well Radius: 0.049 m

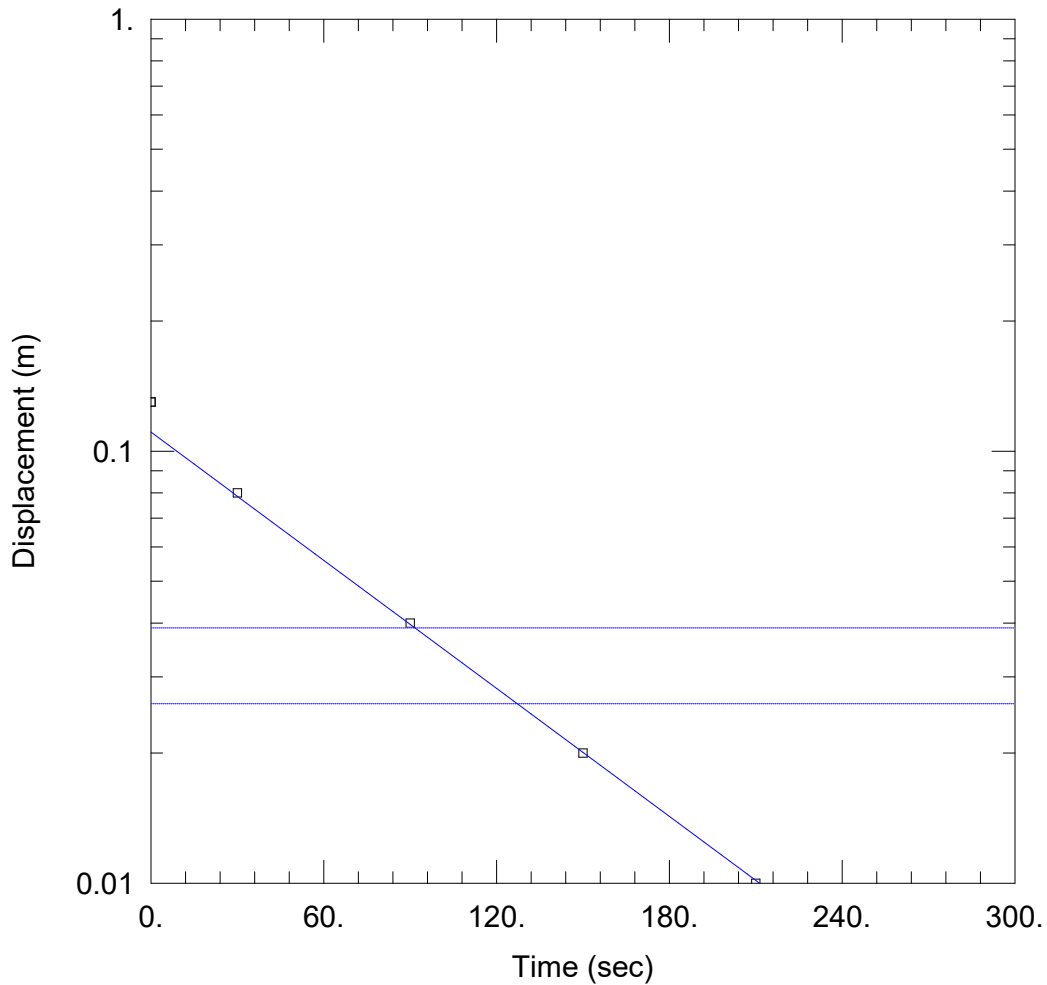
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

K = 1.3E-7 m/sec

y0 = 0.4542 m



MW14-1B RISING HEAD TEST

Data Set: \\...\MW14-1B Rising Head Test_ST_JK.aqt

Date: 06/03/25

Time: 13:34:05

PROJECT INFORMATION

Company: Stantec

Project: 122170424

Location: 233 Armstrong Street, Ottawa

Test Well: MW14-1B

Test Date: April 29, 2025

AQUIFER DATA

Saturated Thickness: 3.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW14-1B)

Initial Displacement: 0.13 m

Static Water Column Height: 3.42 m

Total Well Penetration Depth: 3.42 m

Screen Length: 3.05 m

Casing Radius: 0.0191 m

Well Radius: 0.049 m

Gravel Pack Porosity: 0.3

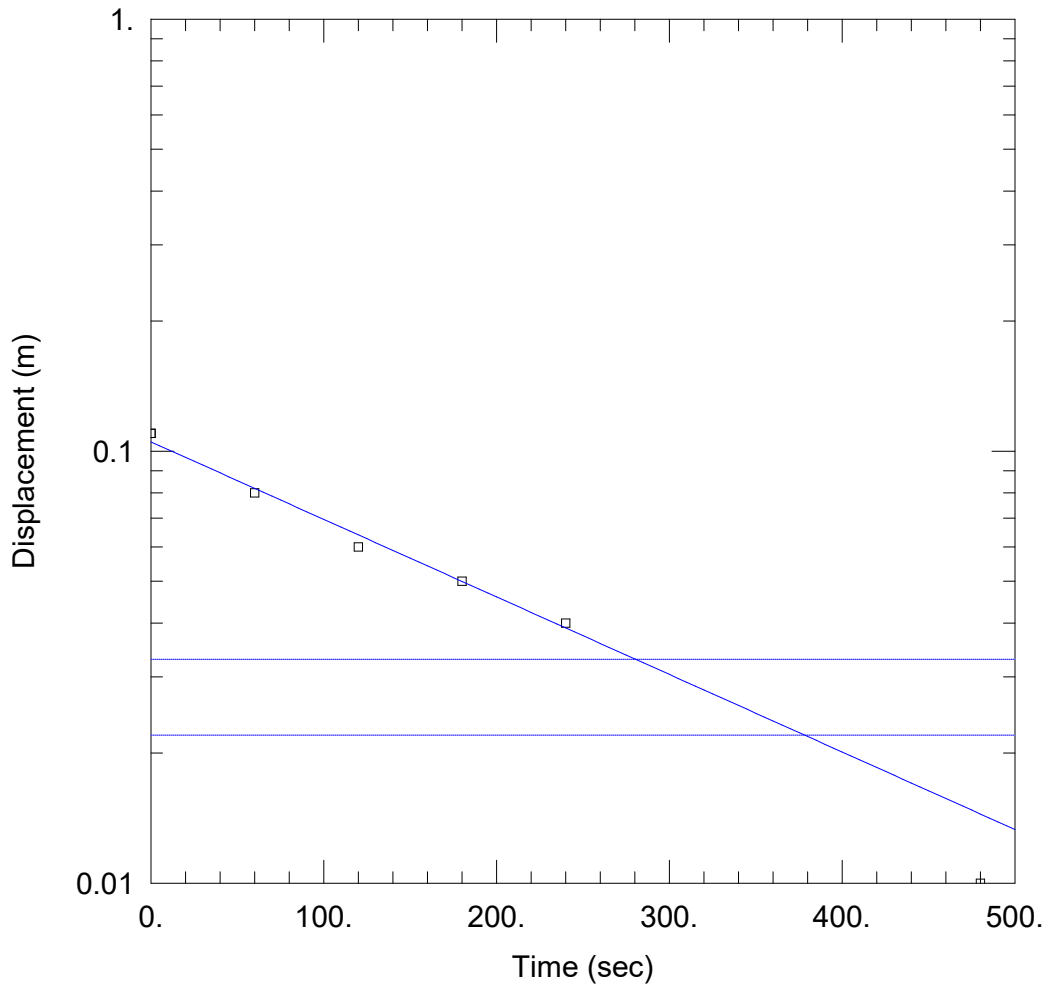
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

K = 6.4E-6 m/sec

y0 = 0.1106 m



MW19-12B RISING HEAD TEST 1

Data Set: ...\MW19-12B Rising Head Test 1_ST_JK.aqt

Date: 06/03/25

Time: 13:59:37

PROJECT INFORMATION

Company: Stantec

Project: 122170424

Location: 233 Armstrong Street, Ottawa

Test Well: MW19-12B

Test Date: April 29, 2025

AQUIFER DATA

Saturated Thickness: 7.08 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW19-12B)

Initial Displacement: 0.11 m

Static Water Column Height: 7.08 m

Total Well Penetration Depth: 7.08 m

Screen Length: 3.05 m

Casing Radius: 0.0127 m

Well Radius: 0.38 m

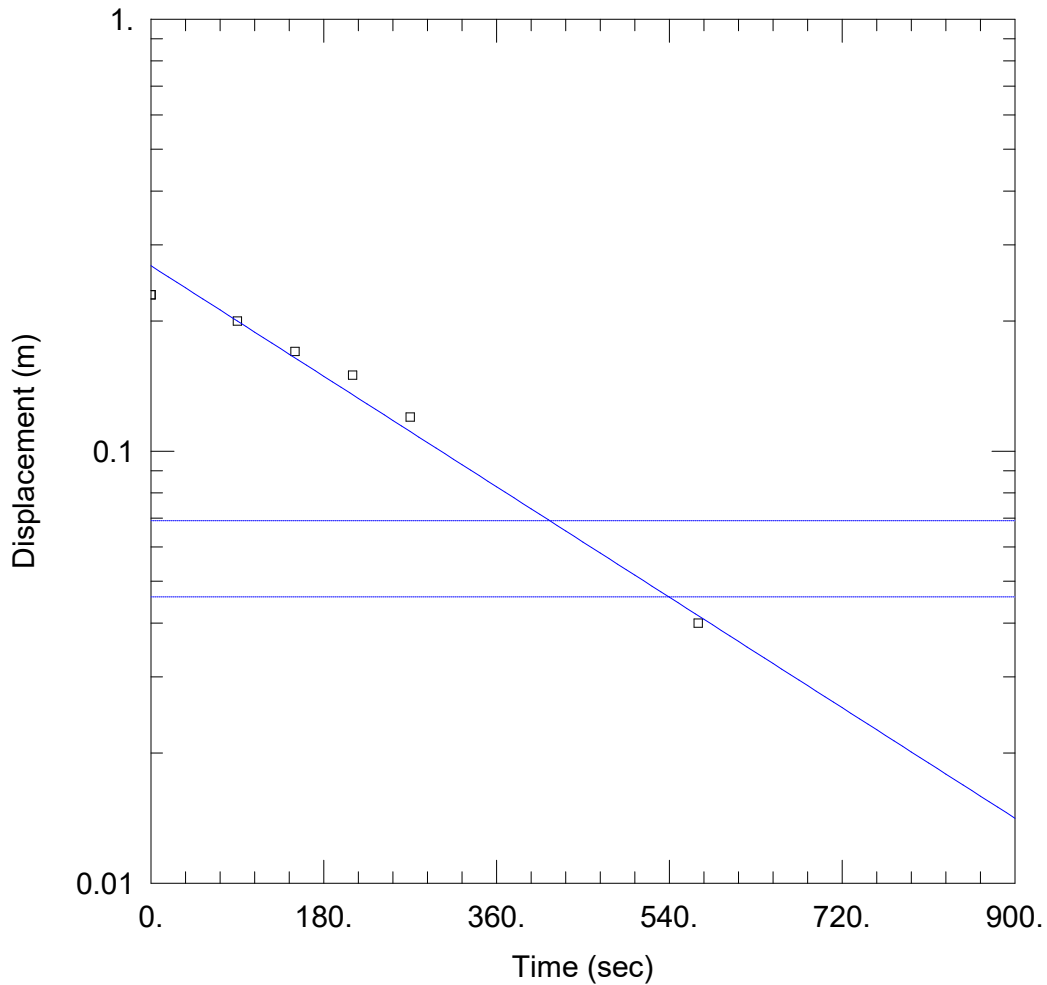
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 2.4E-7 m/sec

y0 = 0.1051 m



MW19-12B RISING HEAD TEST 2

Data Set: \\...\MW19-12B Rising Head Test 2_ST_JK.aqt

Date: 06/03/25

Time: 14:02:53

PROJECT INFORMATION

Company: Stantec

Project: 122170424

Location: 233 Armstrong Street, Ottawa

Test Well: MW19-12B

Test Date: April 29, 2025

AQUIFER DATA

Saturated Thickness: 7.08 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW19-12B)

Initial Displacement: 0.23 m

Static Water Column Height: 7.08 m

Total Well Penetration Depth: 7.08 m

Screen Length: 3.05 m

Casing Radius: 0.0127 m

Well Radius: 0.38 m

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 1.9E-7 m/sec

y0 = 0.2685 m