



October 8, 2024

CRW 1 LP and CRW 2 LP  
200 - 121 King Street West  
Toronto, ON, M5H 3T9

E-mail: [veronica@slateam.com](mailto:veronica@slateam.com)

Attention: Ms. Veronica Jarvis [Client Title]

**Re: Preliminary Hydrogeological Assessment**

2077, 2087, 2097 and 2105 Royal Windsor Drive, Mississauga, Ontario  
Pinchin File: 306354.003

Pinchin Ltd. (Pinchin) has been retained by CRW 1 LP and CRW 2 LP (Client) to conduct a preliminary hydrogeological assessment for the proposed redevelopment of the properties located at 2077, 2087, 2097 and 2105 Royal Windsor Drive (collectively referred to as the Site), in the City of Mississauga (City), Ontario.

It is Pinchin's understanding that the Client is proceeding with *Official Plan Amendment* and *Zoning-By-Law Amendment*. The scope of work for this assessment is considered to be acceptable for this application. Further investigation will be required for Site Plan Approval and supporting detailed design.

A hydrogeological assessment was conducted at the Site to support the Development Application process for the proposed redevelopment. This letter report provides a summary of soil and groundwater conditions at the Site and a conservative estimate of the volume of water that may require management during the construction and operations phases of the redevelopment of the Site. An evaluation of the quality of groundwater that could theoretically be discharged as part of the potential Site dewatering is also provided.

## **1.0 INTRODUCTION AND BACKGROUND**

The Site is located on the northwest side of Royal Windsor Drive, approximately 50 m southwest of the intersection of Royal Windsor Drive and Southdown Road, in Mississauga. The approximate site location is shown on Figures 1 and 2.

The Site comprises two parcels of land with a total area of approximately 15,146 m<sup>2</sup> (3.74 acres). One parcel has been developed with a one-storey building with a local driveway and parking spaces, and is identified with a municipal address of 2105 Royal Windsor Drive.



The other parcel has been developed with three one-storey buildings with parking spaces, identified as 2077, 2087 and 2097 Royal Windsor Drive. It is understood that the Client intends to redevelop the Site from its current commercial land use to mixed commercial and residential land use, comprised of tower buildings with multiple levels of underground parking facilities.

## **2.0 PURPOSE**

The purpose of this hydrogeological assessment was to characterize the soil and groundwater conditions of the Site, evaluate the dewatering requirements for the proposed construction and operations phases of the development, evaluate the groundwater quality of potential discharge water, assess any potential impacts on the surrounding environment due to the proposed development, and provide recommendations concerning mitigative measures, if required.

### **2.1 Proposed Development Parameters**

The site plans for the proposed development, dated September 25, 2024 and prepared by Gensler are provided in Appendix I.

The proposed development consists of four tower buildings, new private roads, and parkland/landscape open spaces. The development is proposed in two phases:

- Phase 1 (West Block) consists of Tower 1 – 35 storey building and Tower 2 – 31 storey building on a 6-storey podium, sitting on 4 levels of underground parking facility. The underground development area of the Phase 1 (West Block) is 3,844 m<sup>2</sup>. The P4 slab elevation is at 85.23 masl; and
- Phase 2 (East Block) consists of Tower 3 – 35 storey building and Tower 4 – 25 storey building on a 6-storey podium, sitting on 3 levels of underground parking facility. The underground development area of the Phase 2 (East Block) is 6,096 m<sup>2</sup> for P1 and P2, and 3,432 m<sup>2</sup> for partial P3, and the P3 Level is at a depth of 10.5 m below ground floor elevation. The P3 slab elevation is 88.23 masl.

Based on the available topographic data, the topographic elevations at the Site are between 95 m above sea level (masl) and 100 masl. The average grade for the proposed development is 99.48 to 99.55 masl (Appendix A – Drawings A2.200 to A2.202).



## **2.2 Previous and Current Investigations**

### *2.2.1 Previous Investigations*

The following previous environmental reports completed for the Site were provided by the Client.

- Report entitled “*Phase I Environmental Site Assessment, 2105 Royal Windsor Drive, Mississauga, Ontario*” dated January 28, 2016, prepared for CS Capital Royal Windsor Inc., by JFM Environmental Limited (JFMEL) (2016 JFMEL Phase I ESA Report).
- Report entitled “*Phase II Environmental Site Assessment, 2077-2105 Royal Windsor Drive, Mississauga, Ontario*” dated January 28, 2016, prepared for CS Capital Royal Windsor Inc., by JFMEL (2016 JFMEL Phase II ESA Report).

#### **2016 JFMEL Phase I ESA**

The 2016 JFMEL Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled “*Phase I Environmental Site Assessment*” (CSA Document Z768-01), dated November 2001 (reaffirmed 2006), including a review of readily available historical records and reasonably ascertainable regulatory information, a Site reconnaissance, interviews, an evaluation of information and reporting. Based on the findings of the Phase I ESA, potentially contaminating activities (PCAs) were identified on Site, which were classified as “*Commercial Body Shop & Automotive Garage*”, and an intrusive investigation in the form of Phase II ESA was recommended.

#### **2016 JFMEL Phase II ESA**

The 2016 JFMEL Phase II ESA was conducted based on the conclusions and recommendations made in 2016 JFMEL Phase I ESA.

JFMEL drilled four exterior boreholes at the Site to a maximum depth of 4.57 metres below ground surface (mbgs). Groundwater was not intercepted at any of the four borehole locations. The soils intercepted at all four boreholes were dry or slightly moist in soil at the shale interface. The groundwater regime was inferred to be situated within the underlying shale, beyond the bottom of the drilled boreholes (no monitoring wells were completed).

Soil stratigraphy at the JFMEL borehole locations generally consisted of silt and sand and gravel fill under asphalt cover, underlain by silty sand and silty clay to sandy clay, and then by shale bedrock. The fill materials generally consisted of a mixture of silt and fine-to medium sand, and sand and gravel, with trace brick fragments, and extended to depths ranging from 0.18 to 1.06 mbgs. The shale bedrock was encountered at depths ranging from 1.24 to 2.74 mbgs.

Soil samples were collected and selected for analyses of sodium adsorption ratio, petroleum hydrocarbon (PHCs) fractions F1 to F4 (F1-F4), metals, sodium adsorption ratio (SAR), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) and/or pH.



The results of the laboratory analyses were compared with the Table 3 Standards and all samples met the applicable standards. Further work to address soil and groundwater conditions at the Site was not deemed warranted by JFMEL.

### 2.2.2 *Current Investigations*

Pinchin is conducting a combined investigation including Phase Two ESA, geotechnical investigation and hydrogeological assessment at the Site. A total of nine boreholes were drilled at the Site to the depths ranging from 4.6 to 12.6 mbgs, and were completed as monitoring wells identified as MW22-1 to MW22-9. The approximate borehole and monitoring well locations are shown on Figure 2.

The data obtained from the drilling program was used in this hydrogeological assessment and the monitoring wells were utilized for groundwater monitoring, sampling and testing.

## 3.0 **METHODOLOGY**

This preliminary hydrogeological assessment was conducted at the Site concurrently with a Phase Two ESA and geotechnical investigation and based on the provided design drawings. A total of nine monitoring wells identified as BH/MW1 to BH/MW9 were completed at the Site for groundwater monitoring, sampling and testing. The approximate monitoring well locations are shown on Figure 2. The monitoring well construction details are provided in Table 1.

The completed scope of work for the preliminary hydrogeological assessment consisted of the following tasks:

- A review of well installation details obtained from the drilling program;
- A desktop water well inventory survey using data from the MECP Water Well Information System (WWIS) database within 500 m of the Site property boundaries;
- A review and summary of the regional geology and hydrogeology, and its linkage to the site-specific geology and hydrogeology;
- Groundwater level monitoring in all the monitoring wells;
- Rising head hydraulic conductivity testing of selected monitoring wells;
- Preparation of local scale geologic cross-sections, groundwater elevation contours and flow directions;
- Background groundwater quality analysis for Peel Region Sewer Use By-law parameters;
- A review of the preliminary site development design for the details of the proposed redevelopment, and completion of a preliminary dewatering assessment for the construction and operations phases of the proposed redevelopment;
- Potential impact assessment with mitigative measures, if required; and



- Preparation of a hydrogeological assessment report summarizing the findings of the investigation.

#### **4.0 WATER WELL RECORDS**

Water well records from within a 500 m radius of the Site were accessed from the Ontario Ministry of the Environment, Conservation and Parks (MECP) Water Well Information System (WWIS).

Based on a review of the water well database, a total of 29 water well records were found within a radius of 500 m from the Site. The MECP water well records are provided in Appendix II. The approximate MECP water well locations are presented on Figure 3.

Among the identified water well records within the 500 m radius, five were for water supply wells (domestic or commercial), seven are abandoned wells or wells with no details, and the others are monitoring wells, observation wells or test holes. No existing water well was found within the Site area.

Based on the water well records, the encountered soils were variable, including clay, silt, sand or gravel. The shale bedrock was encountered at depths ranging from approximately 1.5 to 5.5 mbgs. All five water supply wells were constructed and completed in bedrock, with the recorded groundwater levels between 2.1 and 4.6 mbgs.

#### **5.0 GEOLOGY**

Based on data from the Ontario Geological Survey, the Site is located in the Shale Plain physiographic landform within the South Slope physiographic region, underlain by the Queenston Formation of shale, siltstone, minor limestone and sandstone.

#### **6.0 SURFACE WATER AND TOPOGRAPHY**

Based on the Credit Valley Watershed Plan, the Site is located in the Lake Ontario Shoreline West Tributaries Subwatershed within the Credit River Watershed under the jurisdiction of Credit Valley Conservation (CVC).

As shown on Figure 3, the Site generally slopes towards the east, with the elevations ranging between 95 and 100 masl, and a creek named Sheridan Creek is located approximately 330 m east of the Site. It is noted that Lake Ontario is located approximately 2.5 km southeast of the Site.

#### **7.0 RESULTS**

##### **7.1 Soil Stratigraphy**

In general, the soil stratigraphy at the Site comprises an asphaltic concrete pavement structure underlain by fill material, followed by native clayey silt soil, and then by bedrock to the maximum borehole termination depth of approximately 12.6 mbgs.



Asphaltic concrete was encountered surficially at all borehole locations and was approximately 50 to 100 mm thick. Fill material was encountered below the asphaltic concrete, and generally consisted of sand and gravel, or sand and gravel with clayey silt, extending to depths ranging from 0.3 to 1.5 mbgs.

Clayey silt deposits were encountered below the fill material in all of the boreholes, extending to depths ranging between 2.4 to 3.4 mbgs. The clayey silt deposits had a compact to very dense relative density based on SPT 'N' values of 11 to >50 blows per 300 mm penetration of a split spoon sampler. The results of particle size distribution analysis completed on two samples indicate that the samples contain 1 to 2% gravel, 9 to 16% sand, 60 to 64% silt, and 19 to 29% clay.

Bedrock was encountered in all of the boreholes at depths ranging from 2.3 to 3.4 mbgs and confirmed by rock coring at BH22-4. The Rock Quality Designation (RQD) was calculated for the recovered core samples and the upper 8 metres of the bedrock was highly weathered. The calculated RQD values show that the bedrock classification based on the RQD is in the range of very poor to fair quality.

The details of the soil descriptions and stratigraphy are presented in the Borehole Logs provided in Appendix III. Cross-sections showing the stratigraphy across the Site are provided on Figures 4A and 4B of this report.

## **7.2 Water Level Elevations and Groundwater Flow Regime**

Groundwater level measurements were undertaken in all of the monitoring wells on August 5, 15 and 31, 2022, September 20, 2022 and September 24, 2024. The groundwater level data is presented in Table 2 of this letter report.

The measured groundwater levels ranged from 1.95 mbgs at MW22-6 (September 24, 2024) to 4.08 mbgs at MW22-1 (September 20, 2022), and groundwater level elevations ranged from 95.05 masl at MW22-7 (September 20, 2022) to 96.8 masl at MW22-6 (September 24, 2024). The maximum average of the groundwater levels across the Site was found to be 96.11 masl, measured on August 15, 2022.

Based on the groundwater elevations measured on August 15, 2022, groundwater elevation contours were prepared and are presented on Figure 5. The groundwater flow generally appears to converge towards a low groundwater elevation area located in the northeast portion of the Site, with the groundwater flowing towards the northeast in the southwest portion of the Site and towards the southwest in the northeast portion of the Site.

## **7.3 Hydraulic Conductivity Estimates**

The hydraulic conductivity (K) of the soil/bedrock was estimated based on the rising head hydraulic conductivity tests completed at four monitoring wells. Rising head K- tests were conducted in four monitoring wells (MW22-1 to MW22-4) on August 15, 2022. The results of the K-tests and data processing records are provided in Appendix IV.



The estimated hydraulic conductivities (K-values) for the screened intervals at the four tested on-Site wells are as follows:

MWs	Screen Interval (mbgs)	Screened Medium	K-Estimate (cm/sec)
MW22-1	1.5 – 4.6	Clayey Silt; Weathered Shale	$1.2 \times 10^{-6}$
MW22-2	1.5 – 4.6	Clayey Silt; Weathered Shale	$5.1 \times 10^{-6}$
MW22-3	1.8 – 4.9	Clayey Silt; Weathered Shale	$1.8 \times 10^{-4}$
MW22-4	9.2 – 12.2	Shale	$2.6 \times 10^{-4}$

The K-values for the soil and shale bedrock interface interval ranged from  $1.2 \times 10^{-6}$  cm/sec (MW22-1) to  $1.8 \times 10^{-4}$  cm/sec (MW22-3), and the K-value for the relatively deep shale bedrock was estimated to be  $2.6 \times 10^{-4}$  cm/sec (MW22-4).

## 8.0 DEWATERING ASSESSMENT

As indicated in Section 1.2, the proposed buildings on Phase 1 (West Block) area will have 4-levels of underground parking and the buildings on Phase 2 (East Block) area will have 3-levels of underground parking. The proposed average grade is at 99.48 to 99.55 masl.

Based on the groundwater monitoring, the groundwater elevations measured in the on-site monitoring wells between August and September 2022 ranged from 95.05 to 96.8 masl, which are above the P4 Level (85.2 masl) and P3 Level (88.2 masl) and the required excavation bottom elevations. Therefore, groundwater control will be required during the construction and operations phases of the proposed buildings.

It is understood that the construction will take place in phases. As a result, the dewatering estimates are provided for Phase 1 (West Block) and Phase 2 (East Block) separately.

### 8.1 Short-Term Dewatering Estimates

#### 8.1.1 Groundwater Inflow

Based on the conceptual designs provided by the Client, a conservative groundwater dewatering scenario during construction was undertaken that employed the following parameters and assumptions.

- The excavation/dewatering area is 3,844 m<sup>2</sup> for Phase 1 (West Block) area and 6,096 m<sup>2</sup> for Phase 2 (East Block) area (assuming a whole area excavation for footing/foundation construction);
- Assuming that the target dewatering level will be 0.5 m below the excavation bottom, the target groundwater elevation will be 83.73 masl for the P4 Level in the Phase 1 (West Block) area and 86.73 masl for the P3 Level in the Phase 2 (East Block) area;



- The initial groundwater level will be assumed to be 96.2 masl (the highest averaged groundwater level was 96.11 masl).
- The hydraulic conductivity is  $2.6 \times 10^{-4}$  cm/sec (the hydraulic conductivity estimated from the bedrock).

Based on the above assumptions, the short-term construction dewatering rate and zone of influence were estimated and are presented below.

Phase/ Block	Dewatering Area (m <sup>2</sup> )	Initial Water Level (masl)	Target Water Level (masl)	K- Estimate (cm/sec)	Estimated Maximum Zone of Influence (m from Edge of Excavation)	Dewatering Rate (without Safety Factor) (L/day)	Dewatering Rate Estimate with Safety Factor of 2 or 100% (L/day)
Phase 1 (West Block)	3,844	96.2	83.73	$2.6 \times 10^{-4}$	58	112,155	224,310
Phase 2 (East Block)	6,096	96.2	86.73	$2.6 \times 10^{-4}$	43	92,021	184,043

It should be noted that the application of a Safety Factor provides a more conservative assessment for planning purposes to account for potential variabilities in the hydraulic conductivities in the soil and bedrock across the Site. In addition, during the initial stages of the construction dewatering, the dewatering volumes would be greater than those under a steady state condition, because the water stored in the soil and bedrock fractures is also being removed.

The above total volume estimates, assuming that one bulk excavation will be undertaken for the underground structure for Phase 1 (West Block) or Phase 2 (East Block), and including a Safety Factor of 2, or 100%, is above the threshold for an Environmental Activity Sector Registration (EASR) requirement for construction dewatering of more than 50,000 L/day (50 m<sup>3</sup>/day) and below the threshold limit of 400,000 L/day (400 m<sup>3</sup>/day) for a Permit-to-Take-Water (PTTW) requirement. Therefore, an EASR registration will be required for the construction of the proposed buildings.





### 8.1.2 Stormwater Inflow

A significant amount of the dewatering demand from any construction project is the volume of water that is derived from stormwater that is generated during and after precipitation events. In the case of the proposed development, it will be necessary to handle stormwater that will accumulate within the excavation footprint.

For planning purposes, dewatering estimates are developed assuming the potential occurrence of extreme storm events, which are based upon events that have an observed “return period” or period of recurrence.

Based on the Canadian Climatic Normals 1981-2010 Station Data for Toronto Pearson International Airport Station, the days which had a precipitation rate between 10 mm/day and 25 mm/day vary from 0.77 to 2.6 days per year, with an average of 1.9 days per year, and the days which had a precipitation rate greater than 25 mm/day vary from 0.07 to 0.9 days per year, with an average of 0.4 days per year.

The volumes of storm water that can be generated within the Phase 1 (West Block) and Phase 2 (East Block) development areas were estimated for a 30 mm/day high-precipitation storm event, and are summarized below:

<b>Phase/ Block</b>	<b>Excavation Area (m<sup>2</sup>)</b>	<b>Precipitation Rate (mm/day)</b>	<b>Stormwater Volume (L/day)</b>
Phase 1 (West Block)	4,245	30	127,350
Phase 2 (East Block)	6,412	30	192,360

It should be noted that the above estimates do not take into account any infiltration or evaporation in the excavation area. However, it should also be noted that, for infrequent extreme storm events, the great majority of the generated stormwater becomes run-off or accumulates in the excavation area, due to the fixed assimilative capacity of the soils and the minimal evaporation until the cessation of the event.



8.1.3 Summary of Construction Dewatering Estimates

Based on the short-term construction dewatering calculations discussed above, the estimated construction phase dewatering rates are summarized below.

Phase/ Block	Construction Dewatering	Total Volume without Safety Factor for Groundwater (L/day)	Total Volume with Safety Factor of 2 for Groundwater (L/day)
Phase 1 (West Block)	Discharge of Groundwater	112,155	224,310
	Discharge of Stormwater	127,350	127,350
	Discharge of Groundwater and Stormwater	<b>239,505</b>	<b>351,660</b>
Phase 2 (East Block)	Discharge of Groundwater	92,021	184,043
	Discharge of Stormwater	192,360	192,360
	Discharge of Groundwater and Stormwater	<b>284,381</b>	<b>376,403</b>

8.2 Long-Term Dewatering Estimate - Operations

The same calculation methodology for short-term dewatering estimates was used for the long-term dewatering estimates, except for employing a different target groundwater level, which is just below the projected P5 or P3 slab elevation. The following parameters were employed:

- Target Water Level: 87.03 masl for P3 Level and 85.03 masl for the P4 Level (0.2 m below P3/P5 concrete slab).



The estimated long-term dewatering rate and zone of influence are presented below.

Phase/ Block	Footprint Area (m <sup>2</sup> )	Initial Water Level (masl)	Target Water Level (masl)	K- Estimate (cm/sec)	Estimated Maximum Zone of Influence (m from edge of Excavation)	Dewatering Rate (without safety factor) (L/day)	Dewatering Rate Estimate with safety factor of 2 or 100% (L/day)
Phase 1 (West Block)	3,844	96.2	85.03	2.6 x 10 <sup>-4</sup>	58	94,241	188,483
Phase 2 (East Block)	6,096	96.2	88.03	2.6 x 10 <sup>-4</sup>	43	85,158	170,316

The dewatering volumes estimated for long-term building operations in the Phase 1 (West Block) area and Phase 2 (East Block) area, including a Safety Factor of 2, are above the threshold for long-term dewatering of 50,000 L/day (50 m<sup>3</sup>/day) that triggers a PTTW requirement from the MECP. PTTWs will be required for the proposed building operations in Phase 1 (West Block) area and Phase 2 (East Block) area.

## 9.0 GROUNDWATER QUALITY

One unfiltered groundwater sample was initially obtained on August 8, 2022 from MW22-2 (Sample ID: MW22-2) to evaluate the water quality with reference to the Peel Region Sewer Use By-Law parameter criteria, for storm sewer and sanitary sewer discharge. Re-sampling was conducted from the same well on August 31, 2022 for analysis of selected parameters including total suspended solid (TSS), Total Kjeldahl Nitrogen (TKN), volatile organic compounds (VOCs) and metals.

The groundwater samples were submitted to and analyzed by Bureau Veritas Laboratories (BV). BV has been accredited by the Canadian Association For Laboratory Accreditation Inc. (CALA).

The analytical results were compared with the Peel Region Sewer Use Bylaw – Sanitary and Storm Sewer Discharge Limits. Exceedances of the Sanitary and/or Storm Sewer Discharge limits were detected in the analyzed water samples for a maximum of four parameters, including TSS, TKN, manganese and zinc. In addition, detection limits were raised above the storm sewer criteria for VOC parameters in the initial groundwater sample.



The identified exceedances are listed below.

Date of Sampling	Parameter	Unit	Storm Water Guideline Value	Sanitary Sewer Guideline Value	Measured Concentration
August 8, 2022	TSS	mg/L	<u>15</u>	<u>350</u>	1000
	TKN	mg/L	<u>1</u>	100	4.5
	Manganese	mg/L	<u>0.05</u>	5	1.1
	Zinc	mg/L	<u>0.04</u>	3	0.084
August 31, 2022	TSS	mg/L	<u>15</u>	350	67
	TKN	mg/L	<u>1</u>	100	3.7
	Manganese	mg/L	<u>0.05</u>	5	0.28
	Dissolved Manganese	mg/L	<u>0.05</u>	5	0.24

It is considered that some of the exceedances of the sewer use discharge limits are attributed to sediment within the sample and may be reduced to acceptable levels following treatment for TSS. However, special treatment shall be considered to reduce manganese and TKN in the groundwater if the storm sewer system is selected for receiving the excess water discharge. Manganese concentrations are often elevated in shallow groundwater in the Greater Toronto Area.

It is recommended that samples from several wells be obtained and be analyzed for TKN to confirm its elevated presence across the Site.

### 10.0 CONCLUSIONS

Pinchin provides the following conclusions arising out of the Hydrogeology Assessment activities to date:

- The Site is located in the Shale Plain physiographic landform within the South Slope physiographic region, underlain by the Queenston Formation of shale, siltstone, minor limestone and sandstone.
- The Site is located in the Lake Ontario Shoreline West Tributaries Subwatershed within the Credit River Watershed under the jurisdiction of the Credit Valley Conservation (CVC). A creek named Sheridan Creek is located to the east of the Site. It is noted that Lake Ontario is located approximately 2.5 km east of the Site.



- In general, the soil stratigraphy at the Site comprises an asphaltic concrete pavement structure underlain by fill material followed by native soil of clayey silt and then by bedrock. Shale bedrock was encountered at depths ranging from 2.3 to 3.4 mbgs.
- Groundwater level measurements completed in August 2022, September 2022 and September 2024 indicated that the measured groundwater levels ranged from 1.95 mbgs at MW22-6 (September 24, 2024) to 4.08 mbgs at MW22-1 (September 20, 2022), and groundwater level elevations ranged from 95.05 masl at MW22-7 (September 20, 2022) to 96.8 masl at MW22-6 (September 24, 2024). The maximum average of the groundwater levels across the Site was found to be 96.11 masl, measured on August 15, 2022;
- The groundwater flow generally appears to converge towards a low groundwater elevation area located in the northeast portion of the Site, with the groundwater flowing towards the northeast in the southwest portion of the Site and towards the southwest in the northeast portion of the Site;
- The hydraulic conductivities (K-values) estimated for clayey silt and weather shale bedrock from three monitoring wells ranged from  $1.2 \times 10^{-6}$  cm/sec to  $1.8 \times 10^{-4}$  cm/sec, and the K value estimated for shale from one monitoring well was  $2.6 \times 10^{-4}$  cm/sec;
- The short-term dewatering rates that were estimated for the construction phases, including groundwater inflow and stormwater inflow, and incorporating a Safety Factor of 2 for groundwater inflow, are 351,660 L/day for the Phase 1 (West Block) area and 376,403 L/day for the Phase 2 (East Block) area;
- The long-term dewatering rates estimated for the proposed building operations are 188,483 L/day in the Phase 1 (West Block) area with a four-level underground structure, and 170,316 L/day in Phase 2 (East Block) area with a three-level underground structure;
- An EASR registration will be required for the short-term construction dewatering, and PTTWs will be required for the long-term drainage discharges for Phase 1 (West Block) area and Phase 2 (East Block) area; and
- A groundwater quality assessment completed as per Peel Region Sewer Use Bylaw indicated that the water generated at the Site could not be discharged to the local sewer system without appropriate treatment for TSS, and special treatment may be required for TKN and manganese if the storm sewer is selected for receiving the excess water discharge.



## **11.0 RECOMMENDATIONS**

The preliminary hydrogeological assessment was completed based on the soil and groundwater conditions observed and on the information provided in the progressive development plans. Additional boreholes and monitoring wells will be required to be completed at the appropriate depth to support an SPA application and/or for detailed building design. As a result, the preliminary hydrogeological assessment will need to be updated with the data obtained from additional subsurface investigations, based on the detailed design for the development.

It is recommended that samples from several wells be obtained and be analyzed for TKN to confirm its presence in elevated concentrations across the Site.

## **12.0 LIMITATIONS**

Conclusions derived are specific to the immediate area of study and cannot be extrapolated extensively away from sample or testing locations. Samples have been analyzed for a limited number of parameters, and the absence of information relating to a specific contaminant does not indicate that it is not present.

This report was prepared for the exclusive use of the Client and the City of Mississauga, subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

Pinchin will not be responsible for any consequential or indirect damages. Pinchin will only be liable for damages resulting from negligence or wilful misconduct of Pinchin. All claims by the Client shall be deemed relinquished if not made within two years after last date of services provided.



Information provided by Pinchin is intended for Client and City of Mississauga use only. Pinchin will not provide results or information to any party other than the Client, unless the Client, in writing, requests information to be provided to a third party or unless disclosure by Pinchin is required by law. Any use by a third party, of reports or documents authored by Pinchin, or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

### 13.0 CLOSING REMARKS

We trust that the information provided in this letter meets your requirements. If you have any questions, or require additional information, please do not hesitate to contact either of the undersigned.

Yours truly,

#### **Pinchin Ltd.**

Prepared by:

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Encl.: Figures

- Table 1 – Monitoring Well Construction Details
- Table 2 – Water Level Summary Table
- Appendix I – Site Plans
- Appendix II – MECP Water Well Records
- Appendix III – Borehole Logs
- Appendix IV – Rising Head Hydraulic Conductivity Test Curves
- Appendix V – Laboratory Analytical Results

## Figures and Tables





PROJECT NAME:		PRELIMINARY HYDROGEOLOGICAL ASSESSMENT			
CLIENT NAME:		CRW 1 LP AND CRW 2 LP			
PROJECT LOCATION:		2077 - 2105 ROYAL WINDSOR DRIVE, MISSISSAUGA, ONTARIO			
FIGURE NAME:		KEY MAP			FIGURE NUMBER
PROJECT NUMBER:	SCALE:	DRAWN BY:	REVIEWED BY:	DATE:	1
306354.003	1:12,000	KM	BG	SEPT. 2024	



- LEGEND**
- PROPERTY BOUNDARY
  - SITE BUILDING
  - BOREHOLE (PMEL 2016)
  - BOREHOLE MONITORING WELL (PINCHIN 2022)
  - A-A' LINE OF CROSS-SECTION

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FIELD COPIES MAY ALTER  
INTERPRETATION.



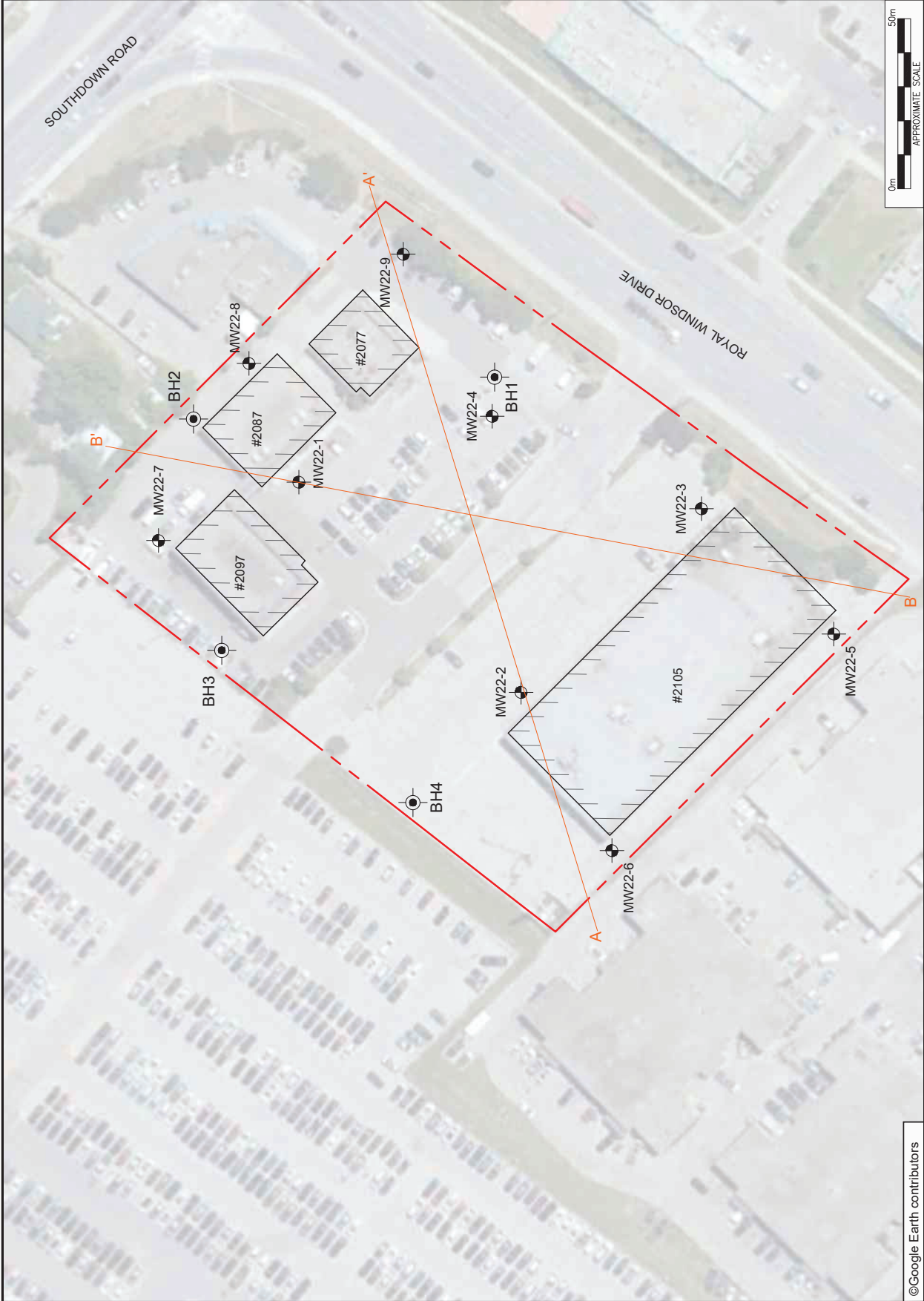
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PRELIMINARY  
HYDROGEOLOGICAL  
ASSESSMENT

**CLIENT NAME:**  
CRW 1 LP AND CRW 2 LP

**PROJECT LOCATION:**  
2077-2105 ROYAL WINDSOR  
DRIVE, MISSISSAUGA, ONTARIO

**FIGURE NAME:**  
BOREHOLE AND MONITORING  
WELL LOCATION PLAN

PROJECT NUMBER:	3063564.003	SCALE:	AS SHOWN
DRAWN BY:	KM	REVIEWED BY:	BG
CHECKED BY:		DATE:	SEPT. 2024
FIGURE NUMBER:		FIGURE NUMBER:	2



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609500 610000 610500 611000 611500



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4818000 4818500 4819000

Service Layer Credits: MNRF, MECP, NHIC, 2022  
World Imagery: Town of Oakville, Maxar

**NOTES**  
1. All features and measurements are approximate and subject to field verification. This map is for planning purposes only.  
2. Use dimensions as shown, do not scale drawing.  
3. This map is not to be used for legal purposes.

**LEGEND**  

 Ontario Water Well Records

**PROJECT NO.:** 306354.003  
**DATE:** SEP. 2024  
**SCALE:** 1:6,000  
**FIGURE NO.:** 3

**PROJECT NAME:** Preliminary Hydrogeological Assessment  
**CLIENT NAME:** CRW 1 LP and CRW 2 LP  
**PROJECT LOCATION:** 2077-2105 Royal Windsor Drive, Mississauga, Ontario  
**FIGURE NAME:** Ontario Water Well Records (500 m Radius)

**Scale:** 0 60 120 240 Metres  
 Coordinate System: NAD 1983 CSRS UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983 CSRS

**DRAWN BY:** MH **REVIEWED BY:** BG **REVISION:** 1

**PINCHIN**



- LEGEND**
- SITE BOUNDARY
  - CROSS SECTION LINE A-A'
  - MONITORING WELL
  - ASPHALT
  - FILL
  - CLAYEY SILT
  - SHALE
  - WELL CASING/BENTONITE
  - MEASURED GROUNDWATER ELEVATION (AUGUST 15, 2022)
  - WELL SCREEN

LEGEND IS COLOUR DEPENDENT. INTERPRETATION MAY VARY. COLOURS MAY ALTER INTERPRETATION.



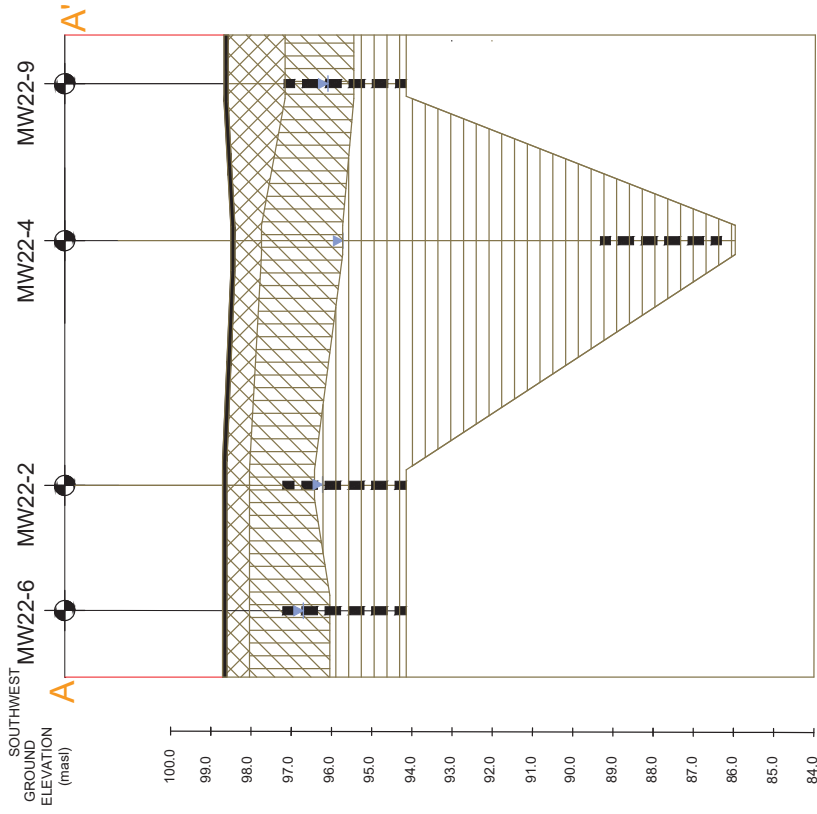
PROJECT NAME: PRELIMINARY HYDROGEOLOGICAL ASSESSMENT  
CLIENT NAME: CRW 1 LP AND CRW 2 LP

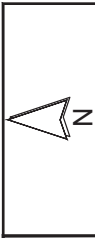
PROJECT LOCATION: 2077-2105 ROYAL WINDSOR DRIVE, MISSISSAUGA, ONTARIO

FIGURE NAME: CROSS SECTION A-A'

PROJECT NUMBER	SCALE
306354-003	AS SHOWN
DRAWN BY	REVIEWED BY
KM	BG
DATE	FIGURE NUMBER
SEPT. 2024	4A

NORTHEAST





- LEGEND**
- SITE BOUNDARY
  - CROSS SECTION LINE
  - MONITORING WELL
  - ASPHALT
  - FILL
  - CLAYEY SILT
  - SHALE
  - WELL CASING/BENTONITE
  - MEASURED GROUNDWATER ELEVATION (AUGUST 15, 2022)
  - WELL SCREEN

LEGEND IS COLOUR DEPENDENT. COLOURS MAY ALTER UPON PRINTING OR INTERPRETATION.



PROJECT NAME:  
PRELIMINARY  
HYDROGEOLOGICAL  
ASSESSMENT

CLIENT NAME:  
CRW 1 LP AND CRW 2 LP

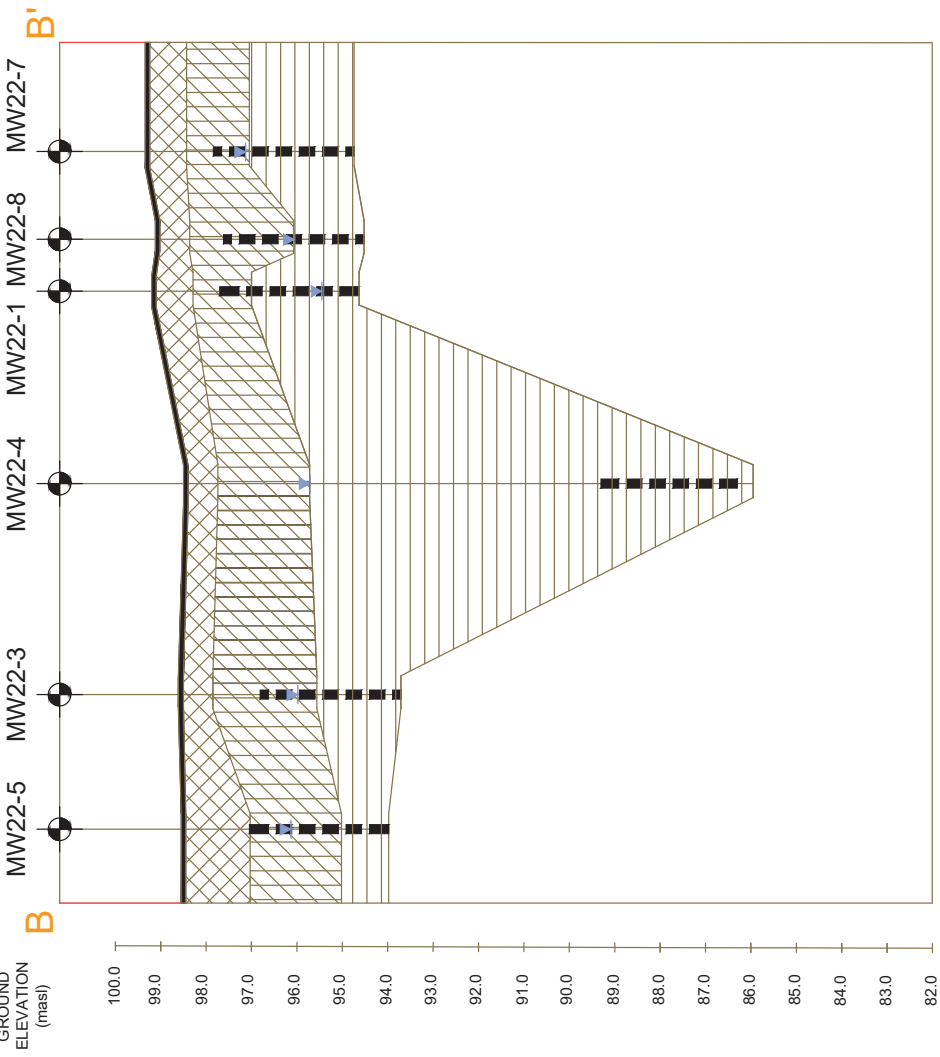
PROJECT LOCATION:  
2077-2105 ROYAL WINDSOR  
DRIVE, MISSISSAUGA, ONTARIO

FIGURE NAME:  
CROSS SECTION B-B'

PROJECT NUMBER:	SCALE:
306354-003	AS SHOWN
DRAWN BY:	REVIEWED BY:
KM	BG
DATE:	FIGURE NUMBER:
SEPT. 2024	48

NORTHEAST

SOUTHWEST



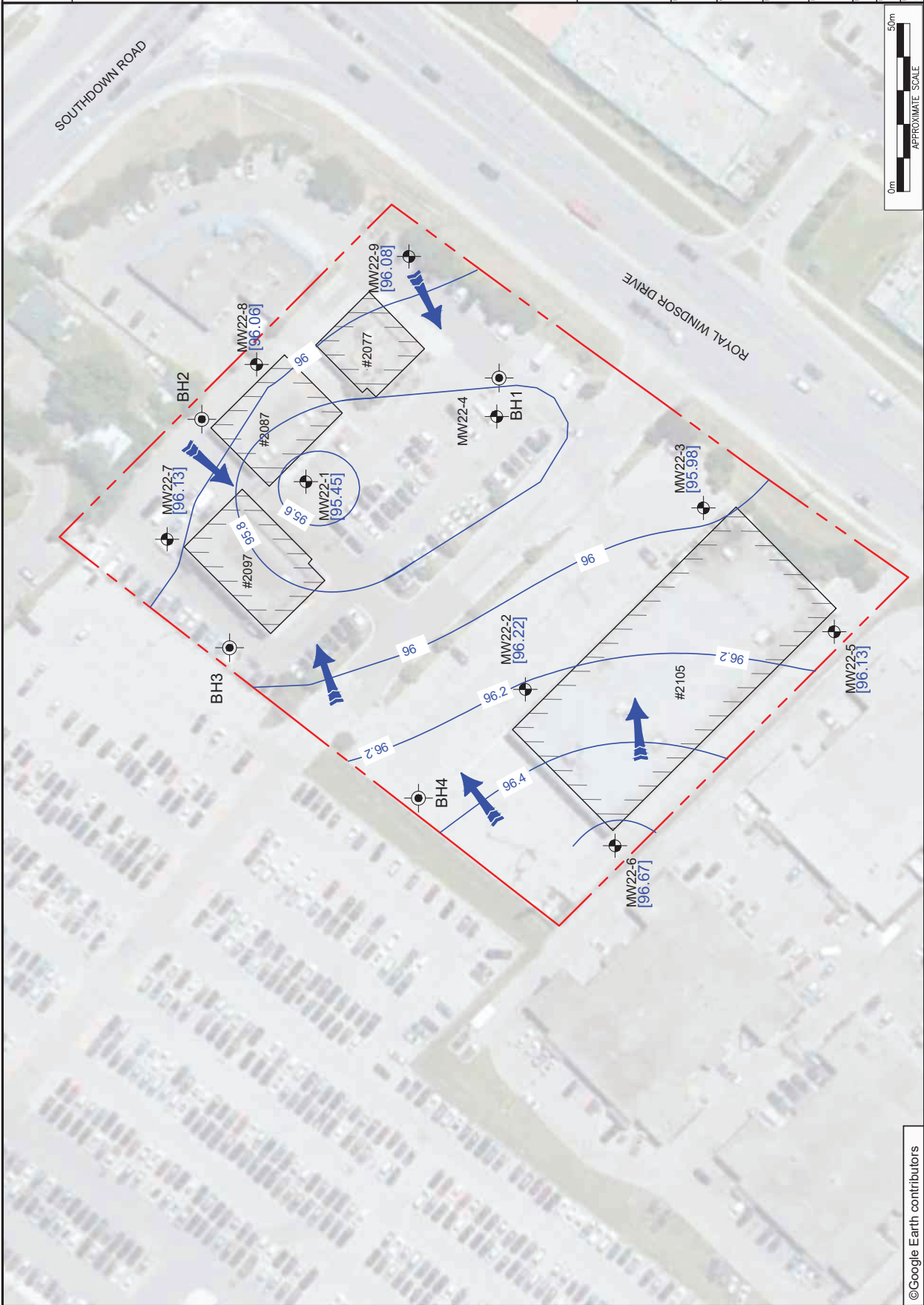


- LEGEND**
- SITE BOUNDARY
  - ▨ SITE BUILDING
  - ⊙ BOREHOLE (FMEL, 2016)
  - ⊙ BOREHOLE MONITORING WELL
  - ⊙ GROUNDWATER ELEVATION (masl, dated August 15, 2022)
  - GROUNDWATER CONTOUR LINES
  - GROUNDWATER FLOW DIRECTION

LEGEND IS COLOUR DEPENDENT.  
 UNLABLED COLOURS MAY ALTER  
 INTERPRETATION.



PROJECT NAME:	PRELIMINARY HYDROGEOLOGICAL ASSESSMENT
CLIENT NAME:	CRW 1 LP AND CRW 2 LP
PROJECT LOCATION:	2077-2105 ROYAL WINDSOR DRIVE, MISSISSAUGA, ONTARIO
FIGURE NAME:	GROUNDWATER ELEVATIONS AND INFERRED FLOW DIRECTION
PROJECT NUMBER:	3063564.003
SCALE:	AS SHOWN
DRAWN BY:	KM
REVIEWED BY:	BG
DATE:	SEPT. 2024
FIGURE NUMBER:	5



**TABLE 1 MONITORING WELL CONSTRUCTION DETAILS**

CRW 1 LP and CRW 2 LP

2077-2105 Royal Windsor Drive, Mississauga, Ontario

Well Number	Ground Elevation (masl)	TOP Elevation (masl)	Surveyed Height of Stic-kup (m)	Borehole Depth (mbgs)	Well Size (cm)	Screen Interval (mbgs)	Screen Length (m)	Stratigraphy in Screen Interval
MW22-1	99.2	99.08	-0.12	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-2	98.71	98.56	-0.15	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-3	98.61	98.49	-0.12	5.00	5.1	1.8 ~ 4.9	3.05	Clayey Silt; weathered shale
MW22-4	98.5	98.36	-0.14	12.60	5.1	9.2 ~ 12.2	3.05	shale
MW22-5	98.55	98.46	-0.09	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-6	98.71	98.64	-0.07	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-7	98.34	98.24	-0.1	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-8	99.12	99.07	-0.05	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-9	98.67	98.6	-0.07	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale

Notes:

m - Metres

TOP - Top of Pipe

masl - Metres Above Sea Level

mbgs - Metres Below Ground Surface

**TABLE 2 GROUNDWATER ELEVATION DATA**

CRW 1 LP and CRW 2 LP

2077-2105 Royal Windsor Drive, Mississauga, Ontario

Well Number	Ground Elevation (masl)	TOP Elevation (masl)	Height of Stickup (m)	Screen Interval (mbgs)	August 5, 2022			August 15, 2022			August 31, 2022			September 20, 2022			September 24, 2024		
					Water Level from Top of Pipe (mbTOP)	Water Level from Ground Surface (mbgs)	Water Level Elevation (masl)	Water Level from Top of Pipe (mbTOP)	Water Level from Ground Surface (mbgs)	Water Level Elevation (masl)	Water Level from Top of Pipe (mbTOP)	Water Level from Ground Surface (mbgs)	Water Level Elevation (masl)	Water Level from Top of Pipe (mbTOP)	Water Level from Ground Surface (mbgs)	Water Level Elevation (masl)	Water Level from Top of Pipe (mbTOP)	Water Level from Ground Surface (mbgs)	Water Level Elevation (masl)
MW22-1	99.20	99.08	-0.12	1.5 ~ 4.6	Div	3.63	3.75	96.45	2.03	2.15	97.05	3.96	4.08	95.12	2.77	2.89	96.31		
MW22-2	98.71	98.56	-0.15	1.5 ~ 4.6	2.43	2.34	2.49	96.22	2.37	2.52	96.19	2.41	2.56	96.15	2.29	2.44	96.27		
MW22-3	98.61	98.49	-0.12	1.8 ~ 4.9	-	2.51	2.63	95.98	2.53	2.65	95.96	2.59	2.71	95.90	2.24	2.36	96.25		
MW22-4	98.50	98.36	-0.14	9.2 ~ 12.2	2.38	2.65	2.79	95.71	2.55	2.69	95.81	2.59	2.73	95.77	-	-	-		
MW22-5	98.55	98.46	-0.09	1.5 ~ 4.6	2.22	2.31	2.42	96.13	2.33	2.42	96.13	2.44	2.53	96.02	-	-	-		
MW22-6	98.71	98.64	-0.07	1.5 ~ 4.6	1.94	1.97	2.04	96.67	1.99	2.06	96.65	2.06	2.13	96.58	1.88	1.95	96.76		
MW22-7	98.34	98.24	-0.10	1.5 ~ 4.6	3.01	3.11	3.11	95.23	3.13	3.23	95.11	3.19	3.29	95.05	3.08	3.18	95.16		
MW22-8	99.12	99.07	-0.05	1.5 ~ 4.6	2.98	3.03	3.06	96.06	3.02	3.07	96.05	3.13	3.18	95.94	2.98	3.03	96.09		
MW22-9	98.67	98.60	-0.07	1.5 ~ 4.6	2.47	2.54	2.59	96.08	2.52	2.59	96.08	2.58	2.65	96.02	2.55	2.62	96.05		

Notes:

- m - Metres
- TOC - Top of Casing
- masl - Metres Above Sea Level
- mbgs - Metres Below Ground Surface



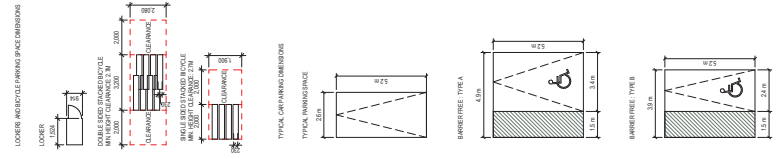
**APPENDIX I**  
**Site Plans**





**GENERAL NOTES**

**LEGEND**





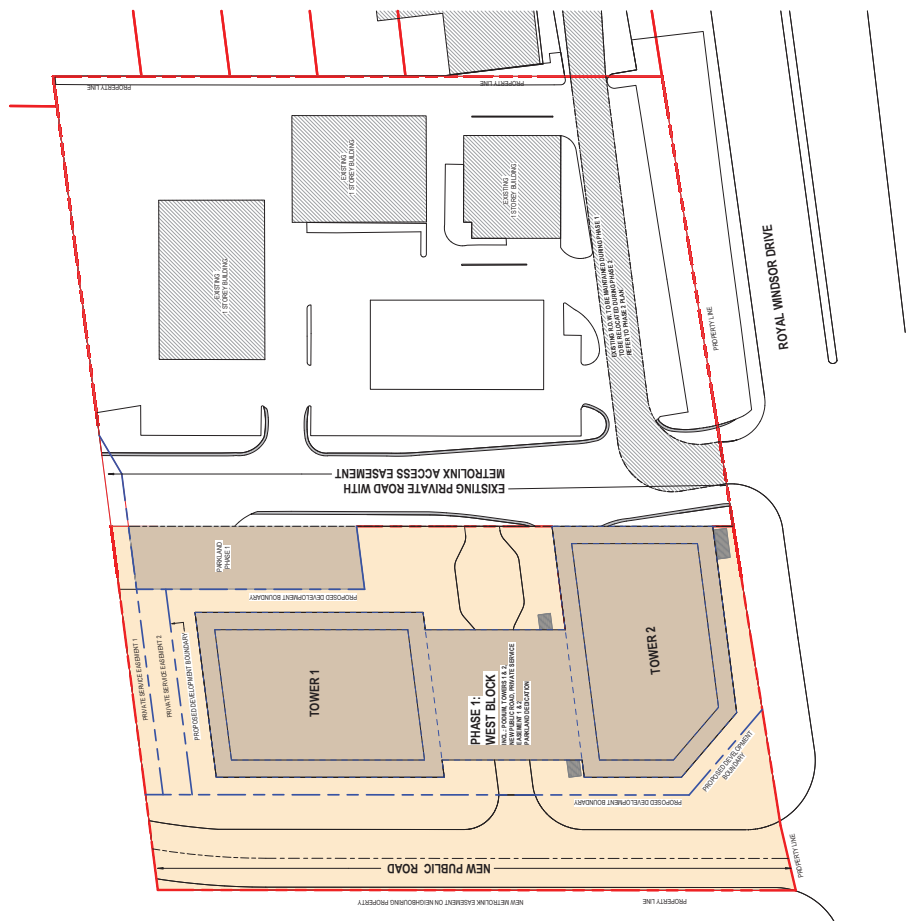
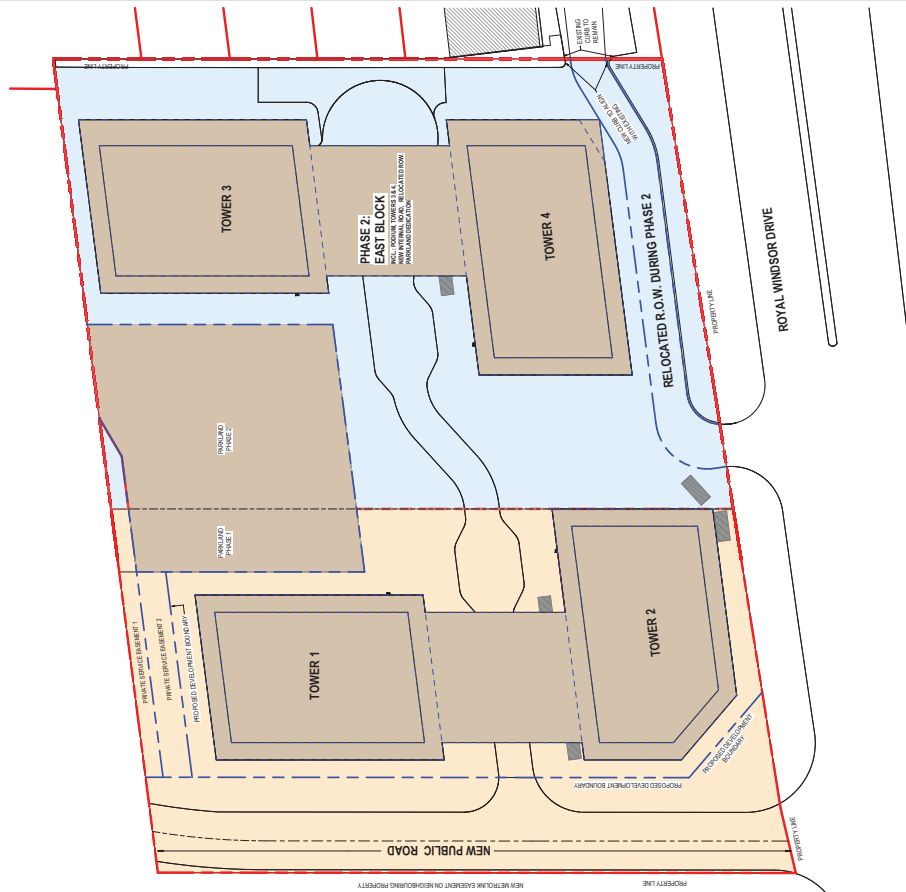












**2 PHASING PLAN - EAST BLOCK**

**1 PHASING PLAN - WEST BLOCK**

**LEGEND**

- PHASE 1 - WEST BLOCK
- PHASE 1 - WEST BLOCK
- PHASE 1 - WEST BLOCK

**APPENDIX II**  
**Water Well Records**

## MECP Water Well Records

Well ID: 7194810

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	SILT	LOAM	0 ft	1 ft
BRWN	SAND	SILT		1 ft	7 ft
GREY	SHLE			7 ft	18.5 ft

Monitoring/observation well, 2" plastic screen 8.5-18.5'

Well ID: 7202215, no details

Well ID: 4902276

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	LOAM			0 ft	1 ft
	MSND			1 ft	4 ft
	GRVL	CLAY	MSND	4 ft	7 ft
	CLAY			7 ft	8 ft
	SHLE	CLAY		8 ft	11 ft
	GRNT			11 ft	12 ft
	LMSN			12 ft	26 ft

Domestic water supply, 5" open hole 8'-26', fresh water found at 26', water level at 7', recommended pump at 24' with pump rate at 5 GPM.

Well ID: 7355168

Monitoring/observation well, 2.75" plastic 8-18', untested water found at 12'

Well ID: 4902280

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	LOAM	MSND		0 ft	5 ft
	SHLE			5 ft	76 ft

Domestic water supply, 4" open hole 10'-76', fresh water found at 27', water level at 12'

Well ID: 7125275, abandoned well

Well ID: 7355157

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	----			0	
	SILT				
	CLAY				
	SAND				15 ft

Monitoring/observation well, 2.375" plastic 5-15'

Well ID: 7120158

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	HARD	0 m	3 m
GREY	SHLE			3 m	6 m

Monitoring/observation well, 6.4 cm plastic 3-6 m

Well ID: 4909936

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK				0 m	.15 m
RED	SILT	GRVL		.15 m	.6 m
BRWN	SILT	SAND		.6 m	3.3 m
GREY	SHLE	LMSN	CLAY	3.3 m	8.35 m

Observation well, 2.7 cm plastic 4.8-8.35 m

Well ID: 4902279

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	10 ft
GREY	SHLE			10 ft	51 ft

Domestic water supply, 12" open hole 13'-51', fresh water found at 25', water level at 8', recommended pump at 51' with pump rate at 2 GPM.

Well ID: 7312445

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL		0 ft	7 ft
	SHLE			7 ft	8 ft
	ROCK			8 ft	50.5 ft

Monitoring/observation well, 2" plastic 9-19', untested water found at 15'

Well ID: 7355169

Monitoring/observation well, 2.375" plastic 6-16', untested water found at 10'

Well ID: 4910293

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL			0 m	4.2 m
GREY	SHLE			4.2 m	6 m

Observation well, 6.4 cm plastic 4.5-6 m, water found at 4.8 m

Well ID: 4909713

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND			0 m	1.1 m
BRWN	SILT	STNS		1.1 m	3 m
BRWN	LMSN			3 m	4.5 m
GREY	LMSN			4.5 m	5.1 m

Observation well, 6.4 cm plastic 1.7-5.1 m

Well ID: 7106569; abandoned well

Well ID: 7046409

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	LOAM		0 m	.3 m
BRWN	CLAY	SILT	SAND	.3 m	2.7 m
GREY	SHLE	WTHD		2.7 m	7.2 m
GREY	SHLE	FCRD		7.2 m	14.8 m

Observation well, 4.2 cm plastic 13.3-14.8 m, fresh water found at 5.8 m

Well ID: 7106564; abandoned well

Well ID: 4902293

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	PRDG			0 ft	18 ft
GREY	SHLE			18 ft	28 ft

Commercial water supply, 6" open hole 18-28', fresh water found at 28', water level at 13'

Well ID: 7049659; abandoned well

Well ID: 7253416

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY				0 ft	6 ft
BRWN	SILT	CLAY	HARD	6 ft	9 ft
GREY	SHLE		WTHD	9 ft	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253417

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY				0 ft	6 ft
BRWN	SILT	CLAY	HARD	6 ft	9 ft
GREY	SHLE		WTHD	9 ft	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253418

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	GRVL			0 ft	5 ft
BRWN	SILT	CLAY	HARD	5 ft	9 ft
GREY	SHLE		WTHD	9 ft	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253419

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SILT	CLAY		0 ft	8 ft
GREY	SHLE		WTHD	8 ft	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7043665

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	LOAM			0 m	.3 m
BRWN	CLAY	DRY		.3 m	1.5 m
BRWN	CLAY	TILL	DRY	1.5 m	3.3 m
GREY	ROCK	SHLE		3.3 m	8.1 m

Monitoring/observation well, 6.4 cm plastic 3.6 – 8.1 m

Well ID: 4902294

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
YLLW	CLAY			0 ft	15 ft
BLUE	SHLE			15 ft	90 ft

Commercial water supply, 6" open hole 15-90', fresh water found at 75', water level at 15'

Well ID: 4910038

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	FILL	0 m	.8 m
BRWN	SILT	SAND	GRVL	.8 m	1.8 m
GREY	SHLE	WTHD		1.8 m	4.1 m

Monitoring/observation well, 6.4 cm plastic 1.1 – 4.1 m

Well ID: 4910066; abandoned well

Well ID: 7267442

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK	----			0 ft	3 ft
BRWN	SAND	GRVL		3 ft	3 ft
BRWN	CLAY			3 ft	11 ft
GREY	SHLE		WTHD	11 ft	13 ft

Monitoring/observation well, 2.25" plastic 3 – 13'

Well ID: 7337084, no details

**APPENDIX III**  
**Borehole Logs**







# Log of Borehole: BH22-2 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE							
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength kPa	Water Content %
									□ 20 40 60 □	△ 100 200 △	● 10 20 30 40 ●
0		Ground Surface	98.71								
		<b>Asphalt</b> Asphaltic concrete - 75 mm	98.51		SS	1	60	9			
		<b>Fill</b> Dark brown sand and gravel, loose, moist	97.95								
1		Mottled grey/brown clayey silt, trace sand and gravel, hard, DTPL			SS	2	60	15			
		<b>Silt</b> Mottled grey/brown clayey silt, trace sand and gravel, hard, DTPL	97.19								
		Clayey silt, with oxidation									
2			96.42		SS	3	80	21			
		inferred weathered shale									
			96.00		SS	4	60	gt 50			
3		<b>Unsampled</b> Augers advanced to 4.6 mbgs to install monitoring well									
4											
			94.14								
5		End of Borehole									
		Borehole terminated at 4.6 mbgs.									
6											

Contractor: Strata Drilling Inc.

Grade Elevation: 98.71 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 98.56 masl

Well Casing Size: 51 mm

Sheet: 1 of 1



# Log of Borehole: BH22-3 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 5, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE							
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength kPa	Water Content %
									□ 20 40 60 □	△ 100 200 △	● 10 20 30 40 ●
0		Ground Surface	98.61								
		<b>Asphalt</b> Asphaltic concrete - 50 mm	98.40		SS	1	70	4			
		<b>Fill</b> Brown sand and gravel, very loose, moist	97.85		SS	2	90	13			
1		Grey/black clayey silt, some gravel, compact, moist			SS	3	80	19			
		<b>Silt</b> Grey clayey silt, some gravel, compact, moist to highly weathered shale			SS	4	80	26			
2											
3		inferred weathered shale	95.56		SS	5	70	>50			
		<b>Unsampled</b> Augers advanced to 4.6 mbgs to install monitoring well	95.26								
4											
5		End of Borehole	93.61								
6		Borehole terminated at 5.0 mbgs.									

Contractor: Strata Drilling Inc.

Grade Elevation: 98.61 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 98.49 masl

Well Casing Size: 51 mm

Sheet: 1 of 1



# Log of Borehole: BH22-4 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 4, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE							
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength kPa	Water Content %
									□ 20 40 60 □	△ 100 200 △	● 10 20 30 40 ●
0		Ground Surface	98.50								
0		<b>Asphalt</b> Asphaltic concrete - 100 mm	97.74		SS	1	50	19			
1		<b>Fill</b> Brown sand and gravel, compact, moist	96.98		SS	2	60	15			
2		<b>Silt</b> Mottled grey/brown clayey silt, trace sand and gravel, hard, DTPL with oxidation	95.72		SS	3	70	21			
3		Brown inferred weathered shale	95.15		SS	4	60	40			
4		<b>Bedrock - Cored</b> Very poor quality (RQD = 0%)	93.55		RC	1	100				
5		Poor quality (RQD = 31%)			RC	2	100				
6		Poor quality (RQD = 30%)			RC	3	100				
7		Poor quality (RQD = 26%)	92.05		RC	4	100				
8		Poor quality (RQD = 46%)	90.53		RC	5	100				
9		Poor quality (RQD = 25%)	89.00		RC	6	100				
10		Fair quality (RQD = 66%)	87.48		RC	7	100				
12.6		End of Borehole Borehole terminated at 12.6 mbgs.	85.95								
13				Water level = 2.69 mbgs, as measured on August 31, 2022							

Contractor: Strata Drilling Inc.

Grade Elevation: 98.50 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 98.36 masl

Well Casing Size: 51 mm

Sheet: 1 of 1





# Log of Borehole: BH22-6 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE							
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength kPa	Water Content %
									□ 20 40 60 □	△ 100 200 △	● 10 20 30 40 ●
0		Ground Surface	98.71								
		<b>Asphalt</b> Asphaltic concrete - 100 mm	98.40		SS	1	80	9			
		<b>Fill</b> Brown sand and gravel, loose, moist	97.95								
		<b>Silt</b> Mottled grey/brown clayey silt, hard, DTPL Clayey silt, with oxidation			SS	2	80	20			
1											
2		inferred weathered shale	96.42								
			96.12		SS	3	90	25			
3		<b>Unsampled</b> Augers advanced to 4.6 mbgs to install monitoring well									
4											
			94.14		SS	4	40	>50			
5		End of Borehole									
6		Borehole terminated at 4.6 mbgs.									

Contractor: Strata Drilling Inc.

Grade Elevation: 98.71 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 98.64 masl

Well Casing Size: 51 mm

Sheet: 1 of 1



# Log of Borehole: BH22-7 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

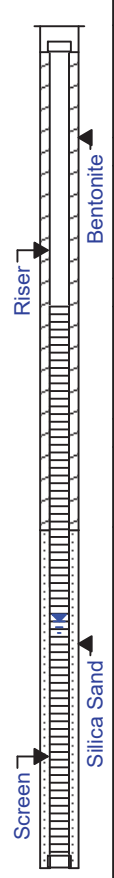
Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 2, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE							
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength kPa	Water Content %
									□ 20 40 60 □	△ 100 200 △	● 10 20 30 40 ●
0		Ground Surface	99.34								
		<b>Asphalt</b> Asphaltic concrete - 100 mm			SS	1	80	7			
		<b>Fill</b> Grey/brown sand and gravel, loose, moist									
1		Mottled grey/brown clayey silt, some gravel, very stiff, APL	98.43		SS	2	70	18			
		<b>Silt</b> Mottled grey/brown clayey silt, trace sand and gravel, very stiff, DTPL with oxidation	97.82								
2		hard			SS	3	90	52			
		inferred weathered shale	97.05								
			96.63		SS	4	60	>50			
3		<b>Unsampled</b> Augers advanced to 4.6 mbgs to install monitoring well									
4											
5		End of Borehole									
6		Borehole terminated at 4.6 mbgs.									



Water level = 3.23 mbgs, as measured on August 31, 2022

Contractor: Strata Drilling Inc.

Grade Elevation: 99.34 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 99.24 masl

Well Casing Size: 51 mm

Sheet: 1 of 1







# Log of Borehole: BH22-9 (MW)

Project #: 306354.002

Logged By: KS

Project: Geotechnical Investigation

Client: Slate Asset Management LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 2, 2022

Project Manager: RM

SUBSURFACE PROFILE				SAMPLE														
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value			Shear Strength		Water Content				
									□	20	40	60	△	kPa	△	●	%	●
0		Ground Surface	98.67															
		<b>Asphalt</b> Asphaltic concrete - 100 mm	98.42		SS	1	80	5										
		<b>Fill</b> Dark brown sand and gravel, loose, moist																
		Mottled grey/brown clayey silt, very stiff, APL, with oxidation			SS	2	80	8										
1			97.15															
		<b>Silt</b> Mottled grey/brown clayey silt, hard, DTPL with oxidation			SS	3	90	18										
2			96.38															
		Brown																
3			95.44		SS	4	90	25										
			95.32															
		inferred weathered shale			SS	5	90	>50										
4		<b>Unsampled</b> Augers advanced to 4.6 mbgs to install monitoring well																
4			94.10															
5		End of Borehole																
5		Borehole terminated at 4.6 mbgs.																
6																		

Contractor: Strata Drilling Inc.

Grade Elevation: 98.67 masl

Drilling Method: Hollow Stem Augers

Top of Casing Elevation: 98.60 masl

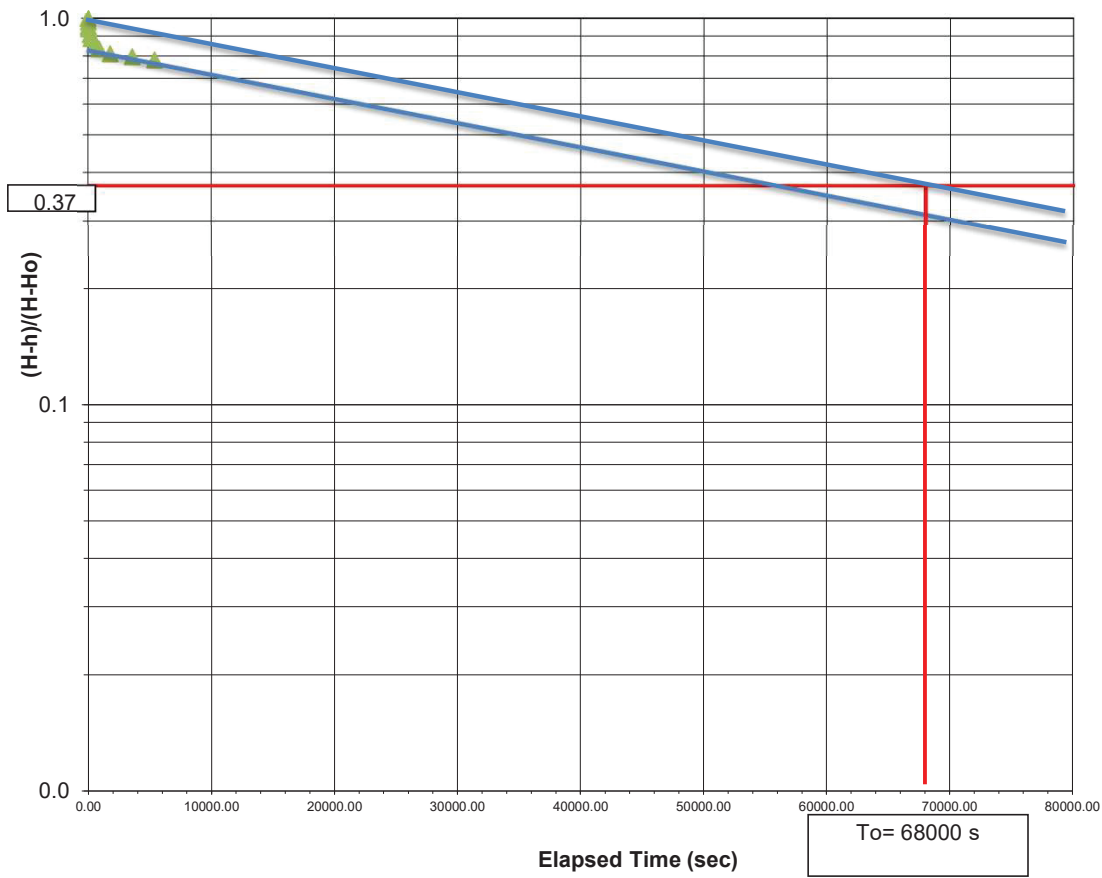
Well Casing Size: 51 mm

Sheet: 1 of 1

**APPENDIX IV**  
**Rising Head Hydraulic Conductivity Test Curves**

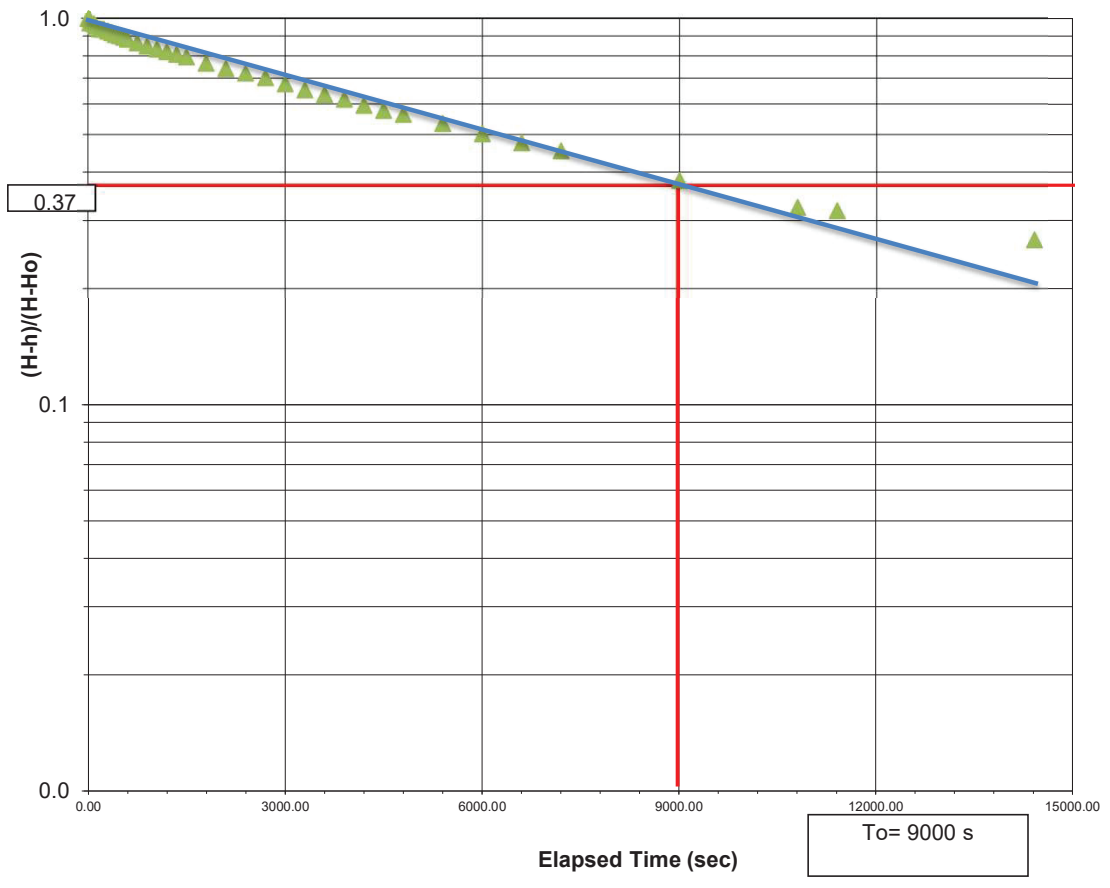
<b>Slug Test: MW22-1</b>		<b>Project No.: 306354.003</b>	
<b>Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario</b>			
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022			
Conducted by:		Rishi M.	
Interpreted by:	Bujing Guan	H =	Initial Water Head prior to test
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time = 0
Screen Depth (mbgs):	1.5 ~ 4.6	h =	Water Head/Level at time t
Screened Soil:		Clayey Silt; weathered shale	
Well Diameter:	2"	L =	87 cm
Static Water Level (mbgs):	3.73	R =	10.2 cm
Initial Reading (mTOP)	3.63	r =	2.54 cm
Test Start Reading (H0) (mTOP)	4.06	To =	68000 sec
Test End Reading (mTOP)	3.966	$K = r^2 \ln(L/R) / (2LTo) =$ <b>1.2E-06</b> cm/s	

**Slug Test Result (Hvorslev Method) - MW22-1  
Based on Manual Measurements/Rising Head Method**



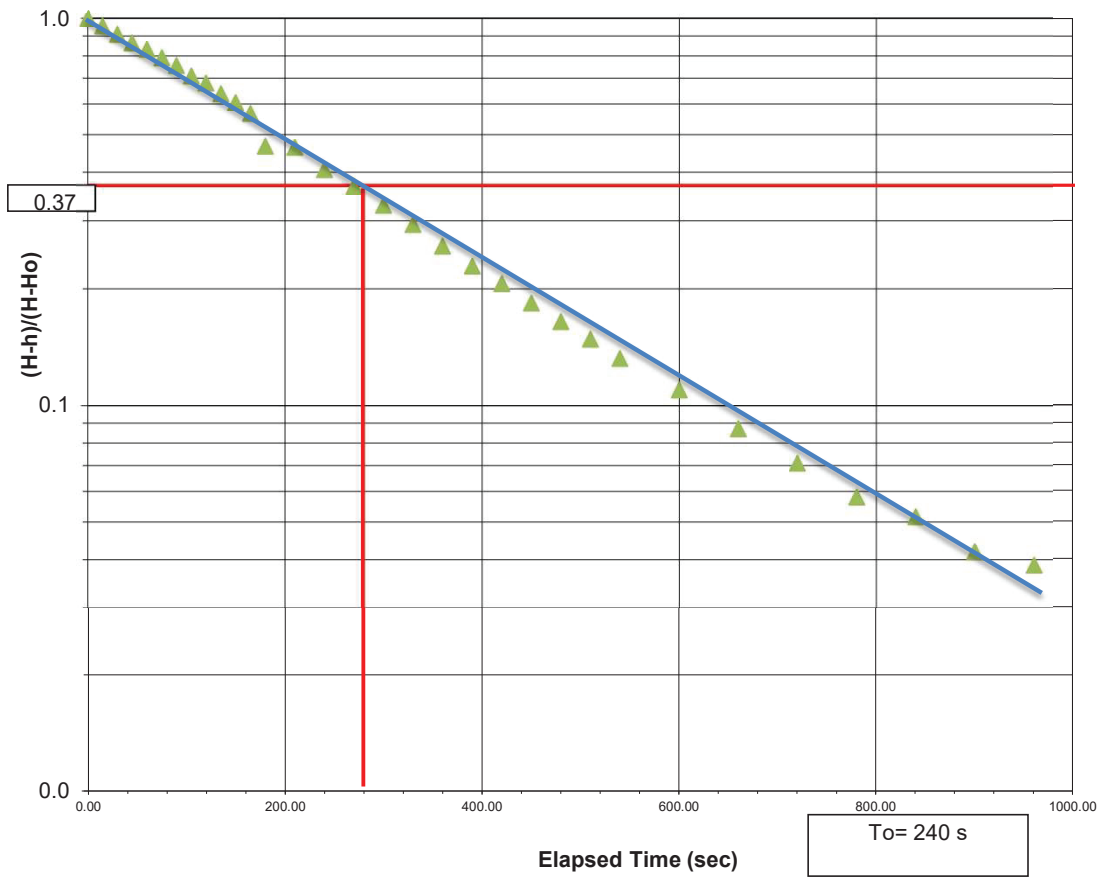
<b>Slug Test: MW22-2</b>		<b>Project No.: 306354.003</b>	
<b>Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario</b>			
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022			
Conducted by:		Rishi M.	
Interpreted by:	Bujing Guan	H =	Initial Water Head prior to test
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time = 0
Screen Depth (mbgs):	1.5 ~ 4.6	h =	Water Head/Level at time t
Screened Soil:		Clayey Silt; weathered shale	
Well Diameter:	2"	L =	216 cm
Static Water Level (mbgs):	2.44	R =	10.2 cm
Initial Reading (mTOP)	2.34	r =	2.54 cm
Test Start Reading (H0) (mTOP)	4.07	To =	9000 sec
Test End Reading (mTOP)	2.803	$K = r^2 \ln(L/R) / (2LTo) =$ <b>5.1E-06</b> cm/s	

**Slug Test Result (Hvorslev Method) - MW22-2  
Based on Manual Measurements/Rising Head Method**



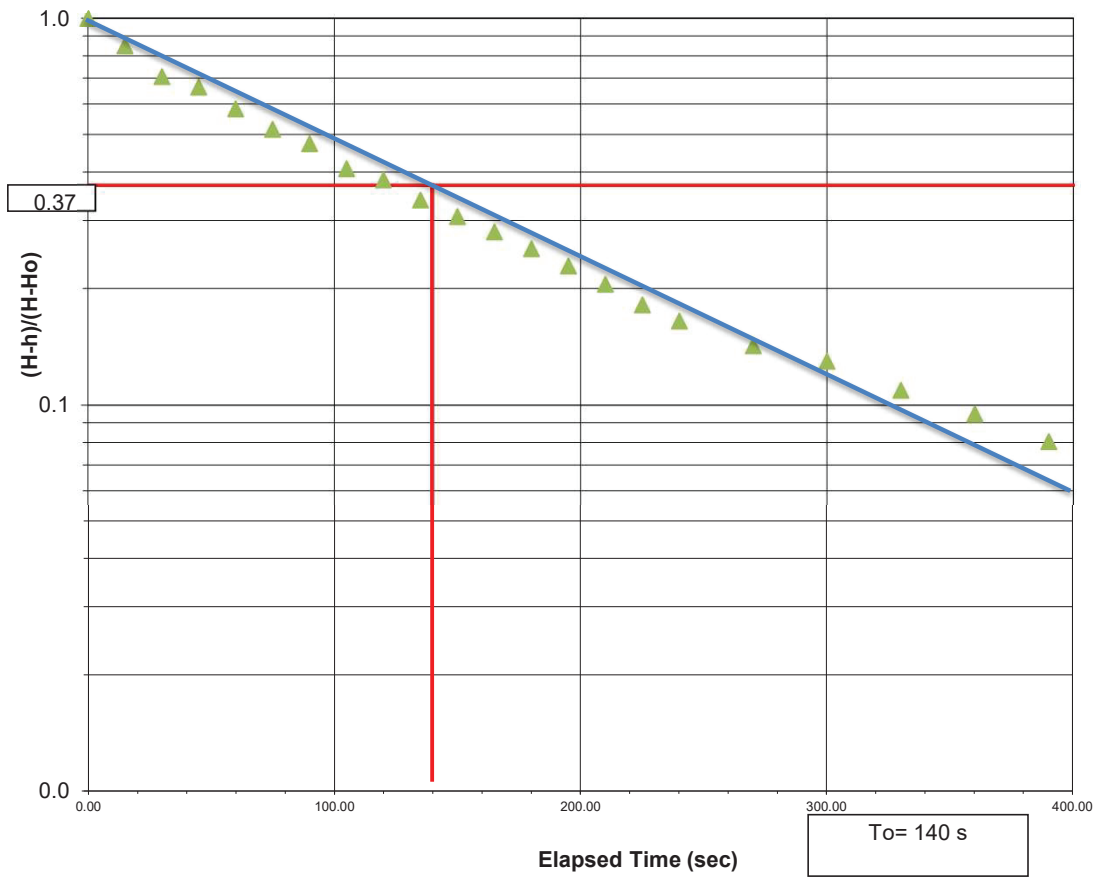
<b>Slug Test: MW22-3</b>		<b>Project No.: 306354.003</b>	
<b>Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario</b>			
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022			
Conducted by:		Rishi M.	
Interpreted by:	Bujing Guan	H =	Initial Water Head prior to test
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time = 0
Screen Depth (mbgs):	1.8 ~ 4.9	h =	Water Head/Level at time t
Screened Soil:		Clayey Silt; weathered shale	
Well Diameter:	2"	L =	229 cm
Static Water Level (mbgs):	2.61	R =	10.2 cm
Initial Reading (mTOP)	2.51	r =	2.54 cm
Test Start Reading (H0) (mTOP)	4.06	To =	240 sec
Test End Reading (mTOP)	2.525	$K = r^2 \ln(L/R) / (2LTo) =$	<b>1.8E-04</b> cm/s

**Slug Test Result (Hvorslev Method) - MW22-3  
Based on Manual Measurements/Rising Head Method**



<b>Slug Test: MW22-4</b>		<b>Project No.: 306354.003</b>	
<b>Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario</b>			
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022			
Conducted by: Rishi M.			
Interpreted by: Bujing Guan	H =	Initial Water Head prior to test	
Processing Date: Aug. 16, 2022	Ho =	Water Head at time = 0	
Screen Depth (mbgs): 9.2 ~ 12.2	h =	Water Head/Level at time t	
Screened Soil: Shale			
Well Diameter: 2"	L =	305	cm
Static Water Level (mbgs): 2.79	R =	10.2	cm
Initial Reading (mTOP) 2.65	r =	2.54	cm
Test Start Reading (H0) (mTOP) 7.5	To =	140	sec
Test End Reading (mTOP) 2.645	$K = r^2 \ln(L/R) / (2LTo) =$		<b>2.6E-04</b> cm/s

**Slug Test Result (Hvorslev Method) - MW22-4  
Based on Manual Measurements/Rising Head Method**



**APPENDIX V**  
**Laboratory Analytical Results**



Your Project #: 306354  
 Site Location: ROYAL WINDSOR SITE  
 Your C.O.C. #: 891788-01-01

**Attention: Bujing Guan**

Pinchin Ltd  
 2360 Meadowpine Blvd  
 Unit # 2  
 Mississauga, ON  
 CANADA L5N 6S2

**Report Date: 2022/08/17**  
 Report #: R7257300  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2M2908**

**Received: 2022/08/08, 16:17**

Sample Matrix: Water  
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2022/08/14	2022/08/15	CAM SOP-00301	EPA 8270 m
Carbonaceous BOD	1	2022/08/10	2022/08/15	CAM SOP-00427	SM 23 5210B m
Total Cyanide	1	2022/08/10	2022/08/10	CAM SOP-00457	OMOE E3015 5 m
Fluoride	1	2022/08/09	2022/08/10	CAM SOP-00449	SM 23 4500-F C m
Mercury in Water by CVAA	1	2022/08/12	2022/08/12	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	1	N/A	2022/08/11	CAM SOP-00447	EPA 6020B m
E.coli, (CFU/100mL)	1	N/A	2022/08/08	CAM SOP-00552	MECP E3433
Total Nonylphenol in Liquids by HPLC	1	2022/08/15	2022/08/16	CAM SOP-00313	In-house Method
Nonylphenol Ethoxylates in Liquids: HPLC	1	2022/08/15	2022/08/16	CAM SOP-00313	BV Labs Method
Animal and Vegetable Oil and Grease	1	N/A	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520B m
Total Oil and Grease	1	2022/08/11	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520B m
Polychlorinated Biphenyl in Water	1	2022/08/09	2022/08/10	CAM SOP-00309	EPA 8082A m
pH	1	2022/08/09	2022/08/10	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2022/08/11	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	1	N/A	2022/08/10	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2022/08/10	2022/08/11	CAM SOP-00938	OMOE E3516 m
Mineral/Synthetic O & G (TPH Heavy Oil) (1)	1	2022/08/11	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520F m
Total Suspended Solids	1	2022/08/10	2022/08/11	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2022/08/10	CAM SOP-00228	EPA 8260C m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or





Your Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Your C.O.C. #: 891788-01-01

**Attention: Bujing Guan**

Pinchin Ltd  
2360 Meadowpine Blvd  
Unit # 2  
Mississauga, ON  
CANADA L5N 6S2

**Report Date: 2022/08/17**  
Report #: R7257300  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2M2908**

**Received: 2022/08/08, 16:17**

implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Note: TPH (Heavy Oil) is equivalent to Mineral / Synthetic Oil & Grease

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Antonella Brasil, Senior Project Manager  
Email: Antonella.Brasil@bureauveritas.com  
Phone# (905)817-5817

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

### PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
<b>Calculated Parameters</b>							
Total Animal/Vegetable Oil and Grease	mg/L	-	150	4.7	0.50	0.10	8152799
<b>Inorganics</b>							
Total Carbonaceous BOD	mg/L	15	300	<2	2	0.2	8157607
Fluoride (F-)	mg/L	-	10	0.28	0.10	0.020	8157136
Total Kjeldahl Nitrogen (TKN)	mg/L	1	100	<b>4.5</b>	0.10	0.060	8157953
pH	pH	6.0:9.0	5.5:10.0	7.54			8157137
Phenols-4AAP	mg/L	0.008	1	0.0025	0.0010	0.00030	8160871
Total Suspended Solids	mg/L	15	350	<b>1000</b>	20	4.0	8157679
Dissolved Sulphate (SO4)	mg/L	-	1500	110	1.0	0.10	8157180
Total Cyanide (CN)	mg/L	0.02	2	<0.0050	0.0050	0.00010	8157419
<b>Petroleum Hydrocarbons</b>							
Total Oil & Grease	mg/L	-	-	5.4	0.50	0.10	8160207
TPH - Heavy Oils	mg/L	-	15	0.70	0.50	0.10	8160211
<b>Miscellaneous Parameters</b>							
Nonylphenol Ethoxylate (Total)	mg/L	-	0.2	<0.2	0.2	0.04	8167187
Nonylphenol (Total)	mg/L	-	0.02	<0.001	0.001	0.0002	8167167
<b>Metals</b>							
Mercury (Hg)	mg/L	0.0004	0.01	<0.00010	0.00010	0.000050	8162674
Total Aluminum (Al)	ug/L	-	50000	21000	25	10	8160171
Total Antimony (Sb)	ug/L	-	5000	0.55	0.50	0.30	8160171
Total Arsenic (As)	ug/L	20	1000	8.8	1.0	0.50	8160171
Total Cadmium (Cd)	ug/L	8	700	<0.090	0.090	0.090	8160171
Total Chromium (Cr)	ug/L	80	5000	32	5.0	5.0	8160171
Total Cobalt (Co)	ug/L	-	5000	20	0.50	0.10	8160171
Total Copper (Cu)	ug/L	50	3000	23	0.90	0.50	8160171
Total Lead (Pb)	ug/L	120	3000	2.9	0.50	0.10	8160171
Total Manganese (Mn)	ug/L	50	5000	<b>1100</b>	2.0	0.50	8160171
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.							
Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.							



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

### PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
Total Molybdenum (Mo)	ug/L	-	5000	4.4	0.50	0.20	8160171
Total Nickel (Ni)	ug/L	80	3000	42	1.0	0.50	8160171
Total Phosphorus (P)	ug/L	-	10000	900	100	30	8160171
Total Selenium (Se)	ug/L	20	1000	<2.0	2.0	0.50	8160171
Total Silver (Ag)	ug/L	120	5000	<0.090	0.090	0.070	8160171
Total Tin (Sn)	ug/L	-	5000	1.1	1.0	0.50	8160171
Total Titanium (Ti)	ug/L	-	5000	180	5.0	4.0	8160171
Total Zinc (Zn)	ug/L	40	3000	<b>84</b>	5.0	3.0	8160171
<b>Semivolatile Organics</b>							
Bis(2-ethylhexyl)phthalate	ug/L	8.8	12	<2.0	2.0	0.10	8165355
Di-N-butyl phthalate	ug/L	15	80	2.3	2.0	0.10	8165355
<b>Volatile Organics</b>							
Benzene	ug/L	2	10	<b>&lt;10 (1)</b>	10	1.0	8156330
Chloroform	ug/L	2	40	<b>&lt;10 (1)</b>	10	2.5	8156330
1,2-Dichlorobenzene	ug/L	5.6	50	<b>&lt;20 (1)</b>	20	2.5	8156330
1,4-Dichlorobenzene	ug/L	6.8	80	<b>&lt;20 (1)</b>	20	2.5	8156330
cis-1,2-Dichloroethylene	ug/L	5.6	4000	<b>&lt;25 (1)</b>	25	2.5	8156330
trans-1,3-Dichloropropene	ug/L	5.6	140	<b>&lt;20 (1)</b>	20	2.5	8156330
Ethylbenzene	ug/L	2	160	<b>&lt;10 (1)</b>	10	0.50	8156330
Methylene Chloride(Dichloromethane)	ug/L	5.2	2000	<b>&lt;100 (1)</b>	100	5.0	8156330
Methyl Ethyl Ketone (2-Butanone)	ug/L	-	8000	<500	500	25	8156330
Styrene	ug/L	-	200	<20	20	2.5	8156330
1,1,2,2-Tetrachloroethane	ug/L	17	1400	<b>&lt;20 (1)</b>	20	2.5	8156330
Tetrachloroethylene	ug/L	4.4	1000	<b>&lt;10 (1)</b>	10	2.5	8156330
Toluene	ug/L	2	270	<b>&lt;10 (1)</b>	10	0.50	8156330
Trichloroethylene	ug/L	8	400	<b>&lt;10 (1)</b>	10	2.5	8156330
p+m-Xylene	ug/L	-	-	<10	10	0.50	8156330
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: The Regional Municipality of Peel Storm Sewer Discharge.							
By-Law Number 53-2010.							
Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge.							
By-Law Number 53-2010.							
(1) RDL exceeds criteria							



**PEEL SANITARY & STORM SEWER (53-2010)**

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
o-Xylene	ug/L	-	-	<10	10	0.50	8156330
Total Xylenes	ug/L	4.4	1400	<10 (1)	10	0.50	8156330
<b>PCBs</b>							
Total PCB	ug/L	0.4	1	<0.05	0.05	0.01	8156405
<b>Microbiological</b>							
Escherichia coli	CFU/100mL	200	-	<10	10	N/A	8154425
<b>Surrogate Recovery (%)</b>							
2,4,6-Tribromophenol	%	-	-	83			8165355
2-Fluorobiphenyl	%	-	-	83			8165355
2-Fluorophenol	%	-	-	44			8165355
D14-Terphenyl	%	-	-	94			8165355
D5-Nitrobenzene	%	-	-	90			8165355
D5-Phenol	%	-	-	31			8165355
Decachlorobiphenyl	%	-	-	97			8156405
4-Bromofluorobenzene	%	-	-	98			8156330
D4-1,2-Dichloroethane	%	-	-	96			8156330
D8-Toluene	%	-	-	99			8156330
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.							
Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.							
N/A = Not Applicable							
(1) RDL exceeds criteria							



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

### PEEL SANITARY & STORM SEWER (53-2010)

<b>Bureau Veritas ID</b>				TJS069			
<b>Sampling Date</b>				2022/08/08 15:30			
	<b>UNITS</b>	<b>Criteria</b>	<b>Criteria-2</b>	<b>MW22 - 2 Lab-Dup</b>	<b>RDL</b>	<b>MDL</b>	<b>QC Batch</b>

Miscellaneous Parameters							
Nonylphenol Ethoxylate (Total)	mg/L	-	0.2	<0.2	0.2	0.04	8167187
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							
Criteria: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.							
Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.							



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

### TEST SUMMARY

**Bureau Veritas ID:** TJS069  
**Sample ID:** MW22 - 2  
**Matrix:** Water

**Collected:** 2022/08/08  
**Shipped:**  
**Received:** 2022/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	8165355	2022/08/14	2022/08/15	Anh Lieu
Carbonaceous BOD	DO	8157607	2022/08/10	2022/08/15	Gurjot Kaur
Total Cyanide	SKAL/CN	8157419	2022/08/10	2022/08/10	Prgya Panchal
Fluoride	ISE	8157136	2022/08/09	2022/08/10	Kien Tran
Mercury in Water by CVAA	CV/AA	8162674	2022/08/12	2022/08/12	Japneet Gill
Total Metals Analysis by ICPMS	ICP/MS	8160171	N/A	2022/08/11	Daniel Teclu
E.coli, (CFU/100mL)	PL	8154425	N/A	2022/08/08	Sonja Elavinamannil
Total Nonylphenol in Liquids by HPLC	LC/FLU	8167167	2022/08/15	2022/08/16	Dennis Boodram
Nonylphenol Ethoxylates in Liquids: HPLC	LC/FLU	8167187	2022/08/15	2022/08/16	Dennis Boodram
Animal and Vegetable Oil and Grease	BAL	8152799	N/A	2022/08/11	Automated Statchk
Total Oil and Grease	BAL	8160207	2022/08/11	2022/08/11	Mitul Patel
Polychlorinated Biphenyl in Water	GC/ECD	8156405	2022/08/09	2022/08/10	Svitlana Shaula
pH	AT	8157137	2022/08/09	2022/08/10	Kien Tran
Phenols (4AAP)	TECH/PHEN	8160871	N/A	2022/08/11	Mandeep Kaur
Sulphate by Automated Colourimetry	KONE	8157180	N/A	2022/08/10	Samuel Law
Total Kjeldahl Nitrogen in Water	SKAL	8157953	2022/08/10	2022/08/11	Rajni Tyagi
Mineral/Synthetic O & G (TPH Heavy Oil)	BAL	8160211	2022/08/11	2022/08/11	Mitul Patel
Total Suspended Solids	BAL	8157679	2022/08/10	2022/08/11	Shaneil Hall
Volatile Organic Compounds in Water	GC/MS	8156330	N/A	2022/08/10	Narayan Ghimire

**Bureau Veritas ID:** TJS069 Dup  
**Sample ID:** MW22 - 2  
**Matrix:** Water

**Collected:** 2022/08/08  
**Shipped:**  
**Received:** 2022/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nonylphenol Ethoxylates in Liquids: HPLC	LC/FLU	8167187	2022/08/15	2022/08/16	Dennis Boodram



### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.3°C
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Sample TJS069 [MW22 - 2] : VOC Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Nonylphenol and Nonylphenol Ethoxylates Analysis:

Due to background interference, sample required dilution. The Detection limit was adjusted accordingly.

**Results relate only to the items tested.**



**QUALITY ASSURANCE REPORT**

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8156330	4-Bromofluorobenzene	2022/08/10			99	70 - 130	102	%				
8156330	D4-1,2-Dichloroethane	2022/08/10			97	70 - 130	98	%				
8156330	D8-Toluene	2022/08/10			103	70 - 130	97	%				
8156405	Decachlorobiphenyl	2022/08/10	87	60 - 130	98	60 - 130	90	%				
8165355	2,4,6-Tribromophenol	2022/08/15	90	10 - 130	90	10 - 130	45	%				
8165355	2-Fluorobiphenyl	2022/08/15	73	30 - 130	74	30 - 130	86	%				
8165355	2-Fluorophenol	2022/08/15	46	10 - 130	49	10 - 130	29	%				
8165355	D14-Terphenyl	2022/08/15	91	30 - 130	94	30 - 130	93	%				
8165355	D5-Nitrobenzene	2022/08/15	80	30 - 130	90	30 - 130	90	%				
8165355	D5-Phenol	2022/08/15	31	10 - 130	32	10 - 130	27	%				
8156330	1,1,2,2-Tetrachloroethane	2022/08/10			81	70 - 130	<0.40	ug/L	NC		30	
8156330	1,2-Dichlorobenzene	2022/08/10			88	70 - 130	<0.40	ug/L	NC		30	
8156330	1,4-Dichlorobenzene	2022/08/10			104	70 - 130	<0.40	ug/L	NC		30	
8156330	Benzene	2022/08/10			87	70 - 130	<0.20	ug/L	NC		30	
8156330	Chloroform	2022/08/10			91	70 - 130	<0.20	ug/L	NC		30	
8156330	cis-1,2-Dichloroethylene	2022/08/10			92	70 - 130	<0.50	ug/L	NC		30	
8156330	Ethylbenzene	2022/08/10			89	70 - 130	<0.20	ug/L	NC		30	
8156330	Methyl Ethyl Ketone (2-Butanone)	2022/08/10			96	60 - 140	<10	ug/L	NC		30	
8156330	Methylene Chloride(Dichloromethane)	2022/08/10			90	70 - 130	<2.0	ug/L	NC		30	
8156330	o-Xylene	2022/08/10			88	70 - 130	<0.20	ug/L	NC		30	
8156330	p+m-Xylene	2022/08/10			93	70 - 130	<0.20	ug/L	NC		30	
8156330	Styrene	2022/08/10			94	70 - 130	<0.40	ug/L	NC		30	
8156330	Tetrachloroethylene	2022/08/10			88	70 - 130	<0.20	ug/L	NC		30	
8156330	Toluene	2022/08/10			90	70 - 130	<0.20	ug/L	NC		30	
8156330	Total Xylenes	2022/08/10					<0.20	ug/L	NC		30	
8156330	trans-1,3-Dichloropropene	2022/08/10			93	70 - 130	<0.40	ug/L	NC		30	
8156330	Trichloroethylene	2022/08/10			97	70 - 130	<0.20	ug/L	NC		30	
8156405	Total PCB	2022/08/10	65	60 - 130	96	60 - 130	<0.05	ug/L	NC		40	
8157136	Fluoride (F-)	2022/08/10	105	80 - 120	106	80 - 120	<0.10	mg/L	1.4		20	
8157137	pH	2022/08/10			102	98 - 103			0.074		N/A	
8157180	Dissolved Sulphate (SO4)	2022/08/10	NC	75 - 125	97	80 - 120	<1.0	mg/L	0.70		20	





**QUALITY ASSURANCE REPORT(CONT'D)**

Pinchin Ltd  
 Client Project #: 306354  
 Site Location: ROYAL WINDSOR SITE  
 Sampler Initials: EC

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8157419	Total Cyanide (CN)	2022/08/10	95	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
8157607	Total Carbonaceous BOD	2022/08/15					<2	mg/L	2.9	30	88	85 - 115
8157679	Total Suspended Solids	2022/08/11					<10	mg/L	NC	25	96	85 - 115
8157953	Total Kjeldahl Nitrogen (TKN)	2022/08/11	85	80 - 120	97	80 - 120	<0.10	mg/L	NC (1)	20	96	80 - 120
8160171	Total Aluminum (Al)	2022/08/11	101	80 - 120	101	80 - 120	<4.9	ug/L	0.52	20		
8160171	Total Antimony (Sb)	2022/08/11	108	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Arsenic (As)	2022/08/11	102	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8160171	Total Cadmium (Cd)	2022/08/11	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
8160171	Total Chromium (Cr)	2022/08/11	96	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
8160171	Total Cobalt (Co)	2022/08/11	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Copper (Cu)	2022/08/11	97	80 - 120	98	80 - 120	<0.90	ug/L	4.2	20		
8160171	Total Lead (Pb)	2022/08/11	94	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Manganese (Mn)	2022/08/11	100	80 - 120	98	80 - 120	<2.0	ug/L	3.6	20		
8160171	Total Molybdenum (Mo)	2022/08/11	104	80 - 120	96	80 - 120	<0.50	ug/L	1.2	20		
8160171	Total Nickel (Ni)	2022/08/11	100	80 - 120	100	80 - 120	<1.0	ug/L	3.2	20		
8160171	Total Phosphorus (P)	2022/08/11	103	80 - 120	110	80 - 120	<100	ug/L	NC	20		
8160171	Total Selenium (Se)	2022/08/11	101	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
8160171	Total Silver (Ag)	2022/08/11	95	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
8160171	Total Tin (Sn)	2022/08/11	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8160171	Total Titanium (Ti)	2022/08/11	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
8160171	Total Zinc (Zn)	2022/08/11	100	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
8160207	Total Oil & Grease	2022/08/11			100	85 - 115	<0.50	mg/L	1.3	25		
8160211	TPH - Heavy Oils	2022/08/11			97	85 - 115	<0.50	mg/L	1.6	25		
8160871	Phenols-4AAP	2022/08/11	103	80 - 120	100	80 - 120	<0.0010	mg/L	9.5	20		
8162674	Mercury (Hg)	2022/08/12	92	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
8165355	Bis(2-ethylhexyl)phthalate	2022/08/15	102	30 - 130	107	30 - 130	<2.0	ug/L	NC	40		
8165355	Di-N-butyl phthalate	2022/08/15	103	30 - 130	110	30 - 130	<2.0	ug/L	NC	40		
8167167	Nonylphenol (Total)	2022/08/16	104	50 - 130	105	50 - 130	<0.001	mg/L	NC	40		



BUREAU  
VERITAS  
1875

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

## QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8167187	Nonylphenol Ethoxylate (Total)	2022/08/16	104	50 - 130	109	50 - 130	<0.025	mg/L	NC	40		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference  $\leq$  2x RDL).  
(1) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908  
Report Date: 2022/08/17

Pinchin Ltd  
Client Project #: 306354  
Site Location: ROYAL WINDSOR SITE  
Sampler Initials: EC

### VALIDATION SIGNATURE PAGE


The analytical data and all QC contained in this report were reviewed and validated by:

*Cristina Carriere*

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Cristina Carriere, Senior Scientific Specialist

*Ewa Pranjic*



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Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

*Sonja Elavinamanni*

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Sonja Elavinamanni, Master of Biochemistry, Team Lead

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas  
40, Empress Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

08-Aug-22 16:17

**INVOICE TO:** #3103 Pinchin Ltd  
 Accounts Payable  
 2360 Meadownpine Blvd Unit # 2  
 Mississauga ON L5N 6S2  
 (905) 363-0678 Fax: (905) 363-0681  
 Email: ap@pinchin.com

**REPORT TO:** Bujing Guan, *Bjw@pinchin.com*  
 Attention: *Bjw@pinchin.com*  
 Address: *Bjw@pinchin.com*  
 Tel: *Bjw@pinchin.com*  
 Email: *Bjw@pinchin.com*

**PROJECT INFORMATION:** Quotation #: C20345  
 P.O. #: 306354  
 Project: Royal Windsor Site  
 Site #: E.C.  
 Sampled By: *E.C.*

**Antonella Brasil**  
 Project Manager: Antonella Brasil  
 C#891788-01-01

**MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY**

Turnaround Time (TAT) Required: \_\_\_\_\_  
 Please provide advance notice for rush projects

**Regulation 153 (2011)**

Table 1  Res/Park  Medium/Fine  CCME  Sanitary Sewer Bylaw  Reg 558  Storm Sewer Bylaw  MISA  P/WOO  Other \_\_\_\_\_

Table 2  Ind/Comm  For RSC  Municipality  Reg 406 Table  Other \_\_\_\_\_

Table 3  Agri/Other  For RSC  Other \_\_\_\_\_

Table 4  Other \_\_\_\_\_

Special Instructions: **NOT FOR RSC. Peel Region Sewer Use Bylaw (Sanitary & Storm)**

Other Regulations:  Sanitary Sewer Bylaw  Storm Sewer Bylaw  Municipality  Reg 406 Table  Other \_\_\_\_\_

Include Criteria on Certificate of Analysis (Y/N)? **Y**

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	Metals / Hg Cr VI	Peel Sanitary & Storm Sewer (53-2010)
1	MWJ2-2	Aug 8 2022	3:30	GW	✓	✓	✓
2							
3							
4							
5							
6							
7							
8							
9							
10							

**RECEIVED BY: (Signature/Print)** *Bjw* **Time** 4:15 **Date:** 22/08/08

**RECEIVED BY: (Signature/Print)** *Bjw* **Time** 16:17 **Date:** 08/08/22

**LABORATORY USE ONLY**

Temperature (°C) *19.8* **Time Sensitive**  **Time Sensitive**

Custody Seal Present  Intact

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

\*\* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

**White: Bureau Veritas Yellow: Client**

*ome*

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Bureau Veritas Canada (2019) Inc.



BUREAU  
VERITAS

Bureau Veritas Job #: C2M2908

Report Date: 2022/08/17

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

### Exceedance Summary Table – Peel Region Storm 2010

#### Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-10	Total Kjeldahl Nitrogen (TKN)	1	4.5	0.10	mg/L
MW22 - 2	TJS069-09	Total Manganese (Mn)	50	1100	2.0	ug/L
MW22 - 2	TJS069-06	Total Suspended Solids	15	1000	20	mg/L
MW22 - 2	TJS069-09	Total Zinc (Zn)	40	84	5.0	ug/L

#### Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-13	1,1,2,2-Tetrachloroethane	17	<20	20	ug/L
MW22 - 2	TJS069-13	1,2-Dichlorobenzene	5.6	<20	20	ug/L
MW22 - 2	TJS069-13	1,4-Dichlorobenzene	6.8	<20	20	ug/L
MW22 - 2	TJS069-13	Benzene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Chloroform	2	<10	10	ug/L
MW22 - 2	TJS069-13	cis-1,2-Dichloroethylene	5.6	<25	25	ug/L
MW22 - 2	TJS069-13	Ethylbenzene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Methylene Chloride (Dichloromethane)	5.2	<100	100	ug/L
MW22 - 2	TJS069-13	Tetrachloroethylene	4.4	<10	10	ug/L
MW22 - 2	TJS069-13	Toluene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Total Xylenes	4.4	<10	10	ug/L
MW22 - 2	TJS069-13	trans-1,3-Dichloropropene	5.6	<20	20	ug/L
MW22 - 2	TJS069-13	Trichloroethylene	8	<10	10	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

### Exceedance Summary Table – Peel Region Sanitary 2010

#### Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-06	Total Suspended Solids	350	1000	20	mg/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.



Your Project #: 306354.003  
 Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA  
 Your C.O.C. #: 895232-01-01

**Attention: Bujing Guan**

Pinchin Ltd  
 80 Tiverton Court, Suite 101  
 Markham, ON  
 CANADA L3R 0G4

**Report Date: 2022/09/21**  
 Report #: R7307091  
 Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C2P0389**

**Received: 2022/08/31, 17:54**

Sample Matrix: Water  
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lab Filtered Metals by ICPMS	1	2022/09/20	2022/09/21	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	N/A	2022/09/07	CAM SOP-00447	EPA 6020B m
Total Kjeldahl Nitrogen in Water	1	2022/09/02	2022/09/08	CAM SOP-00938	OMOE E3516 m
Total Suspended Solids	1	2022/09/02	2022/09/07	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2022/09/03	CAM SOP-00228	EPA 8260C m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 306354.003  
Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA  
Your C.O.C. #: 895232-01-01

**Attention: Bujing Guan**

Pinchin Ltd  
80 Tiverton Court, Suite 101  
Markham, ON  
CANADA L3R 0G4

**Report Date: 2022/09/21**  
Report #: R7307091  
Version: 2 - Revision

**CERTIFICATE OF ANALYSIS – REVISED REPORT**

**BUREAU VERITAS JOB #: C2P0389**

**Received: 2022/08/31, 17:54**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Antonella Brasil, Senior Project Manager  
Email: Antonella.Brasil@bureauveritas.com  
Phone# (905)817-5817

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.



### RESULTS OF ANALYSES OF WATER

Bureau Veritas ID				TPN761	TPN761			
Sampling Date				2022/08/31 14:45	2022/08/31 14:45			
COC Number				895232-01-01	895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	MW22-2 Lab-Dup	RDL	MDL	QC Batch
<b>Inorganics</b>								
Total Kjeldahl Nitrogen (TKN)	mg/L	100	1	<b>3.7</b>	N/A	0.10	0.060	8204122
Total Suspended Solids	mg/L	350	15	<b>67</b>	<b>73</b>	10	2.0	8203717
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.								
Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.								
N/A = Not Applicable								





**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Bureau Veritas ID				TPN761	TPN761			
Sampling Date				2022/08/31 14:45	2022/08/31 14:45			
COC Number				895232-01-01	895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	MW22-2 Lab-Dup	RDL	MDL	QC Batch
<b>Metals</b>								
Total Aluminum (Al)	ug/L	50000	-	1700	1700	4.9	2.0	8209243
Total Antimony (Sb)	ug/L	5000	-	<0.50	<0.50	0.50	0.30	8209243
Total Arsenic (As)	ug/L	1000	20	1.0	1.1	1.0	0.50	8209243
Total Cadmium (Cd)	ug/L	700	8	<0.090	<0.090	0.090	0.090	8209243
Total Chromium (Cr)	ug/L	5000	80	<5.0	<5.0	5.0	5.0	8209243
Total Cobalt (Co)	ug/L	5000	-	3.7	3.5	0.50	0.10	8209243
Total Copper (Cu)	ug/L	3000	50	1.4	1.3	0.90	0.50	8209243
Total Lead (Pb)	ug/L	3000	120	<0.50	<0.50	0.50	0.10	8209243
Dissolved Manganese (Mn)	ug/L	5000	50	<b>240</b>	N/A	2.0	N/A	8235334
Total Manganese (Mn)	ug/L	5000	50	<b>280</b>	<b>280</b>	2.0	0.50	8209243
Total Molybdenum (Mo)	ug/L	5000	-	3.1	3.2	0.50	0.20	8209243
Total Nickel (Ni)	ug/L	3000	80	3.9	3.9	1.0	0.50	8209243
Total Phosphorus (P)	ug/L	10000	-	<100	<100	100	30	8209243
Total Selenium (Se)	ug/L	1000	20	<2.0	<2.0	2.0	0.50	8209243
Total Silver (Ag)	ug/L	5000	120	<0.090	<0.090	0.090	0.070	8209243
Total Tin (Sn)	ug/L	5000	-	3.5	3.2	1.0	0.50	8209243
Total Titanium (Ti)	ug/L	5000	-	34	37	5.0	4.0	8209243
Total Zinc (Zn)	ug/L	3000	40	11	10	5.0	3.0	8209243
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.								
Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.								
N/A = Not Applicable								



**VOLATILE ORGANICS BY GC/MS (WATER)**

Bureau Veritas ID				TPN761			
Sampling Date				2022/08/31 14:45			
COC Number				895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	RDL	MDL	QC Batch
<b>Volatile Organics</b>							
Benzene	ug/L	10	2	<0.40	0.40	0.040	8204734
Chloroform	ug/L	40	2	<0.40	0.40	0.10	8204734
1,2-Dichlorobenzene	ug/L	50	5.6	<0.80	0.80	0.10	8204734
1,4-Dichlorobenzene	ug/L	80	6.8	<0.80	0.80	0.10	8204734
cis-1,2-Dichloroethylene	ug/L	4000	5.6	<1.0	1.0	0.10	8204734
trans-1,3-Dichloropropene	ug/L	140	5.6	<0.80	0.80	0.10	8204734
Ethylbenzene	ug/L	160	2	<0.40	0.40	0.020	8204734
Methylene Chloride(Dichloromethane)	ug/L	2000	5.2	<4.0	4.0	0.20	8204734
Methyl Ethyl Ketone (2-Butanone)	ug/L	8000	-	<20	20	1.0	8204734
Styrene	ug/L	200	-	<0.80	0.80	0.10	8204734
1,1,1,2-Tetrachloroethane	ug/L	1400	17	<0.80	0.80	0.10	8204734
Tetrachloroethylene	ug/L	1000	4.4	<0.40	0.40	0.10	8204734
Toluene	ug/L	270	2	<0.40	0.40	0.020	8204734
Trichloroethylene	ug/L	400	8	<0.40	0.40	0.10	8204734
p+m-Xylene	ug/L	-	-	<0.40	0.40	0.020	8204734
o-Xylene	ug/L	-	-	<0.40	0.40	0.020	8204734
Total Xylenes	ug/L	1400	4.4	<0.40	0.40	0.020	8204734
<b>Surrogate Recovery (%)</b>							
4-Bromofluorobenzene	%	-	-	84	N/A	N/A	8204734
D4-1,2-Dichloroethane	%	-	-	118	N/A	N/A	8204734
D8-Toluene	%	-	-	100	N/A	N/A	8204734
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge. By-Law Number 53-2010.							
Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge. By-Law Number 53-2010.							
N/A = Not Applicable							



### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.3°C
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Revised Report (2022/09/21): Dissolved Mn included as per client request .

Sample TPN761 [MW22-2] : VOC Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

**Results relate only to the items tested.**



**BUREAU VERITAS**

Bureau Veritas Job #: C2P0389  
Report Date: 2022/09/21

**QUALITY ASSURANCE REPORT**

Pinchin Ltd  
Client Project #: 306354.003  
Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA  
Sampler Initials: JP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8204734	4-Bromofluorobenzene	2022/09/03	92	70 - 130	92	70 - 130	88	%				
8204734	D4-1,2-Dichloroethane	2022/09/03	109	70 - 130	111	70 - 130	112	%				
8204734	D8-Toluene	2022/09/03	110	70 - 130	109	70 - 130	103	%				
8203717	Total Suspended Solids	2022/09/07					<10	mg/L	8.6	25	95	85 - 115
8204122	Total Kjeldahl Nitrogen (TKN)	2022/09/08	96	80 - 120	96	80 - 120	<0.10	mg/L	2.3	20	95	80 - 120
8204734	1,1,2,2-Tetrachloroethane	2022/09/03	97	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
8204734	1,2-Dichlorobenzene	2022/09/03	105	70 - 130	105	70 - 130	<0.40	ug/L	NC	30		
8204734	1,4-Dichlorobenzene	2022/09/03	120	70 - 130	119	70 - 130	<0.40	ug/L	NC	30		
8204734	Benzene	2022/09/03	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
8204734	Chloroform	2022/09/03	103	70 - 130	104	70 - 130	<0.20	ug/L	7.3	30		
8204734	cis-1,2-Dichloroethylene	2022/09/03	112	70 - 130	113	70 - 130	<0.50	ug/L	NC	30		
8204734	Ethylbenzene	2022/09/03	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
8204734	Methyl Ethyl Ketone (2-Butanone)	2022/09/03	125	60 - 140	132	60 - 140	<10	ug/L	NC	30		
8204734	Methylene Chloride(Dichloromethane)	2022/09/03	101	70 - 130	103	70 - 130	<2.0	ug/L	NC	30		
8204734	o-Xylene	2022/09/03	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
8204734	p+m-Xylene	2022/09/03	105	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
8204734	Styrene	2022/09/03	105	70 - 130	107	70 - 130	<0.40	ug/L	NC	30		
8204734	Tetrachloroethylene	2022/09/03	96	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
8204734	Toluene	2022/09/03	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
8204734	Total Xylenes	2022/09/03					<0.20	ug/L	NC	30		
8204734	trans-1,3-Dichloropropene	2022/09/03	97	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
8204734	Trichloroethylene	2022/09/03	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
8209243	Total Aluminum (Al)	2022/09/07	NC	80 - 120	103	80 - 120	<4.9	ug/L	0.86	20		
8209243	Total Antimony (Sb)	2022/09/07	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8209243	Total Arsenic (As)	2022/09/07	101	80 - 120	99	80 - 120	<1.0	ug/L	9.9	20		
8209243	Total Cadmium (Cd)	2022/09/07	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
8209243	Total Chromium (Cr)	2022/09/07	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8209243	Total Cobalt (Co)	2022/09/07	96	80 - 120	97	80 - 120	<0.50	ug/L	5.3	20		
8209243	Total Copper (Cu)	2022/09/07	99	80 - 120	98	80 - 120	<0.90	ug/L	7.1	20		
8209243	Total Lead (Pb)	2022/09/07	88	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
8209243	Total Manganese (Mn)	2022/09/07	100	80 - 120	97	80 - 120	<2.0	ug/L	1.5	20		



BUREAU VERITAS

Bureau Veritas Job #: C2P0389  
Report Date: 2022/09/21

### QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd  
Client Project #: 306354.003  
Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA  
Sampler Initials: JP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8209243	Total Molybdenum (Mo)	2022/09/07	108	80 - 120	98	80 - 120	<0.50	ug/L	3.4	20		
8209243	Total Nickel (Ni)	2022/09/07	93	80 - 120	98	80 - 120	<1.0	ug/L	0.31	20		
8209243	Total Phosphorus (P)	2022/09/07	116	80 - 120	109	80 - 120	<100	ug/L	NC	20		
8209243	Total Selenium (Se)	2022/09/07	104	80 - 120	105	80 - 120	<2.0	ug/L	NC	20		
8209243	Total Silver (Ag)	2022/09/07	99	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8209243	Total Tin (Sn)	2022/09/07	103	80 - 120	97	80 - 120	<1.0	ug/L	9.6	20		
8209243	Total Titanium (Ti)	2022/09/07	110	80 - 120	96	80 - 120	<5.0	ug/L	10	20		
8209243	Total Zinc (Zn)	2022/09/07	91	80 - 120	102	80 - 120	<5.0	ug/L	4.5	20		
8235334	Dissolved Manganese (Mn)	2022/09/21	98	80 - 120	100	80 - 120	<2.0	ug/L	3.2	20		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



**BUREAU  
VERITAS**

Bureau Veritas Job #: C2P0389  
Report Date: 2022/09/21

Pinchin Ltd  
Client Project #: 306354.003  
Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA  
Sampler Initials: JP

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'Anastassia Hamanov', written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



CHAIN OF CUSTODY RECORD

Page of

**INVOICE TO:**  
 Company Name: #36377 Pinchin Ltd  
 Attention: Accounts Payable  
 Address: 80 Tiverton Court, Suite 101 Markham ON L3R 0G4  
 Tel: (365) 873-0301 Fax: ap@pinchin.com

**REPORT TO:**  
 Company Name: Bujing Guan  
 Attention: Janning Park, Kara Wailey  
 Address: (437) 993-1832 Fax: bguan@pinchin.com  
 Tel: (437) 993-1832 Email: bguan@pinchin.com

**PROJECT INFORMATION:**  
 Quotation #: C20345  
 P.O. #: 306354.003  
 Project: 2077-205 Royal Windsor Dr. Mississauga  
 Site #: IGM ENV-1716  
 Sampled By: [Signature]

31-Aug-22 17:54  
 Antonella Brasil  
 C2P0389

**MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY**

**Regulation 153 (2011)**  
 Table 1  Residential  Misdemeanor  
 Table 2  Industrial/Commercial  Sewerage  
 Table 3  Agricultural  Other  
 Table 4  Other

**Other Regulations**  
 CCME  Sanitary Sewer Bylaw  
 Reg 558  Storm Sewer Bylaw  
 MISA  Municipality  For RSC  
 PWOO  Reg 406 Table  
 Other

**Special Instructions**  
 NIT  
 GW  
 RSC

**Include Criteria on Certificate of Analysis (Y/N)?** Y

Sample Barcodes Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	Metals / Hg / Cr VI	Total Kjeldahl Nitrogen in Water	Total Suspended Solids	Volatile Organic Compounds in Water	Total Meats Analysis by ICPMS	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required:
1	NW 22-2	2022/08/31	2:45P	GW	N	✓	✓	✓	✓	✓	Regular (Standard) TAT: [X] (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dissolved Fuents are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	Regular (Standard) TAT: [X] (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dissolved Fuents are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
2												
3												
4												
5												
6												
7												
8												
9												
10												

**RECEIVED BY: (Signature/Print)** [Signature] **DATE:** 22/08/21 **TIME:** 3:05P

**RECEIVED BY: (Signature/Print)** [Signature] **DATE:** 27/08/21 **TIME:** 17:54

**Laboratory Use Only**  
 Temperature (°C) on Receipt: 15.9  
 Time Sensitive: [X]  
 Custody Seal Present: [X]  
 Y/N: [X]

White: Bureau Veritas Yellow: Client

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.  
 \* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.  
 \*\* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

Bureau Veritas Canada (2019) Inc.



**Exceedance Summary Table – Peel Region Sanitary 2010**  
**Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						

**Exceedance Summary Table – Peel Region Storm 2010**  
**Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22-2	TPN761-03	Total Kjeldahl Nitrogen (TKN)	1	3.7	0.10	mg/L
MW22-2	TPN761-02-Lab Dup	Total Manganese (Mn)	50	280	2.0	ug/L
MW22-2	TPN761-02	Total Manganese (Mn)	50	280	2.0	ug/L
MW22-2	TPN761-01	Dissolved Manganese (Mn)	50	240	2.0	ug/L
MW22-2	TPN761-01	Total Suspended Solids	15	67	10	mg/L
MW22-2	TPN761-01-Lab Dup	Total Suspended Solids	15	73	10	mg/L
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						