



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa

July 16, 2026

Prepared for:
Wateridge Lifestyles Ltd. and Canada Lands
Corporation

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Table of Contents

1.0	Introduction.....	1
1.1	Site Description	1
2.0	Physical Setting.....	2
2.1	Topography and Drainage.....	2
2.2	Physiography.....	2
2.3	Overburden Geology	2
2.4	Bedrock Geology	2
2.5	Vulnerable and Regulated Areas.....	3
3.0	Subsurface Lithology.....	4
3.1	Fill Material	5
3.2	Native Mineral Soils.....	5
3.3	Bedrock	5
3.4	Subsurface Investigations by Others.....	6
4.0	Groundwater Investigation.....	8
4.1	MECP Wel Records Assessment.....	8
4.2	Monitoring Well Installation.....	8
4.3	Single Well Hydraulic Tests.....	9
4.4	Groundwater Quality Analysis	10
4.4.1	Permanent Foundation Drainage Considerations.....	12
5.0	Construction Dewatering Assessment	13
5.1	Excavation Design Parameters	13
5.1.1	Dewatering Rates - Rectangular Excavation	15
5.2	Estimated Construction Dewatering Rates	15
5.2.1	Phase 1 Construction Dewatering Rates.....	16
5.2.2	Phase 2 Construction Dewatering Rates.....	17
5.2.3	Phase 3 Construction Dewatering Rates.....	18



5.3	Permanent Drainage & Dewatering.....	19
5.4	Assessment of Required Regulatory Permits or Registration.....	20
5.5	Zone of Influence and Impact Assessment	20
6.0	Conclusions and Recommendations	22
7.0	Closing	25
8.0	References	26
9.0	Statement of Qualifications & Limitations	28



List of Tables

Table 1	Borehole Summary	4
Table 2	Summary of Boreholes by Others	6
Table 3	Summary of Surrounding Water Well Record Information	8
Table 4	Monitoring Well Construction Details	9
Table 5	Hydraulic Conductivity Estimates derived via SWHTs	10
Table 6	Summary of Result Exceedances	11
Table 7	Summary of Dewatering Calculation Parameters	14
Table 8	Calculated Construction Dewatering Rates – Phase 1	16
Table 9	Calculated Construction Dewatering Rates – Phase 2	17
Table 10	Calculated Construction Dewatering Rates – Phase 3	18

List of Appended Figures

Figure 1	Site Location Plan
Figure 2	Test Hole Location Plan
Figure 3	MECP Well Records within 500 m

List of Appendices

Appendix A	Property and Land Information
Appendix B	Borehole Logs
Appendix C	MECP Well Records
Appendix D	Single Well Hydraulic Test Analysis
Appendix E	Water Quality Lab Report
Appendix F	Dewatering Calculations



1.0 Introduction

Cambium Inc. (Cambium) was retained by Wateridge Lifestyles Ltd. and Canada Lands Corporation (Client) to complete a dewatering assessment in support of the design of the proposed development to be located at Block 21 of the Wateridge Village.

This report provides the results of the hydrogeological assessment and should be read in conjunction with the “Statement of Qualifications and Limitations” in Section 9.0, which forms an integral part of this document. The reader’s attention is specifically drawn to this information, as it is essential for the proper use and interpretation of this report. The data, interpretations, and recommendations contained in this report pertain to a specific project as described in the report and are not applicable to any other project or site location. If the project is modified in concept, location, or elevation, or if the project is not initiated within eighteen months of the date of the report, Cambium should be given an opportunity to confirm that the recommendations in this report are still valid.

1.1 Site Description

The Site is located on the north side of Wateridge Village, and is currently undeveloped. It is bound to the west and north by Codd’s Road, east by Bareille-Snow Street, and fronts Tawadina Road. It is Cambium’s understanding that the proposed development will consist of 3 multi-storey apartment buildings ranging in height from 6 to 9 storeys, with one level of underground parking. The parking garages will be partial basement levels which have footprints smaller than the above tower. The three residential building footprints range in size from approximately 1,012 m² to 3,027 m².

The parking garage level final floor elevation (FFE) for the Phase 1 is currently set at 87.75 m asl and the parking garage level FFE for Phases 2 and 3 is currently set at 86.56 m asl. The proposed development will be municipally serviced for water supply and wastewater treatment. The regional location of the Site is identified on Figure 1, the property is outlined on Figure 2, and a Site plan is included in Appendix A.



2.0 Physical Setting

2.1 Topography and Drainage

According to topographic data from the MECP, the Site elevation ranges from approximately 85 to 90 meters. The Site Slopes from the southern boundary along Tawadina Rd down to the north-northwest boundary

Surface water drainage within the Site is assumed to either infiltrate or run-off and follow local topography to the north-northwest or be captured by the local municipal storm sewer network. It is assumed that surface water drainage at the Site ultimately ends up in the Ottawa River, located approximately 700 m north of the Site.

2.2 Physiography

The Site is located within the physiographic region known as the Ottawa Valley Clay Plains. The Ottawa Valley Clay Plains is a physiographic region characterized by Precambrian rock overlain by a layer of silty clay of variable depth. The Ottawa Valley Clay Plains are extending along the Ottawa River from Pembroke to Hawkesbury with portions across the provincial boundary into Quebec (Chapman & Putnam, 1984).

2.3 Overburden Geology

According to Miscellaneous Release – Data 128 from the Ontario Geological Survey (2010) the predominant overburden of the Site consists of minimal surficial veneer atop Paleozoic bedrock and fine-textured glaciomarine deposits described as silt and clay, minor sand and gravel.

2.4 Bedrock Geology

According to Miscellaneous Release – Data 219 from the Ontario Geological Survey (2007), the bedrock in the area of the Site consists of the Gull River Formation, part of the Simcoe Group. The Gull River Formation is described as limestone with dolostone towards the base.



2.5 Vulnerable and Regulated Areas

The Site is situated within the Rideau Valley Source Protection Area, under jurisdiction of the Rideau Valley Conservation Authority (RVCA), as per the Source Water Protection Information Atlas from the Ministry of the Environment, Conservation and Parks (MECP) (2026a).

The development area is within a Highly Vulnerable Aquifer (HVA) with a vulnerability score of 6. HVAs are aquifers that are more sensitive to contamination as a result of the proximity to surface (shallow aquifers). By default, all HVA's have a vulnerability score of 6 because they are more sensitive to contamination. Due to the shallow bedrock on Site, the development activities for the Site plan have the potential to impact the groundwater supply. Cambium recommends using best management practices during the Site development to minimize impacts to the water supply aquifer (report and clean spills, proper dewatering practices, etc.).

A review of the Natural Heritage System database from the Ministry of Natural Resources (2026) indicates the development area is not located within any areas of natural significance.

The development area does not fall under a regulated area, as per the RVCA or O.Reg. 41/24.



3.0 Subsurface Lithology

Cambium completed a geotechnical investigation at the Site on December 8 and 9th, 2025, and a total of four (4) boreholes, designated as BH101-25 to BH104-25, were advanced across the Site. The findings of the geotechnical investigation report was provided to the Client under separate cover (Cambium, 2026).

To support the infiltration assessment, three additional overburden boreholes were advanced, and outfitted with monitoring wells within the footprint of proposed LID features on March 20, 2026. These additional wells were designated as MW101-26 to MW103-26 and were terminated at practical refusal atop interpreted bedrock. Additionally, a total of 6 rock probes, numbered RP201-26 through RP206-26 were advanced on March 20, 2026, to further assess depth to bedrock across the site. Table 1 provides a summary of the boreholes, the approximate borehole locations relative to existing conditions are shown on Figure 2 and the borehole logs are provided in Appendix B. Elevations were measured based on the topographic survey (Monument-Urso Surveying Ltd., 2025) and provided based on geodetic metres above seal level (mASL).

Table 1 Borehole Summary

Borehole ID	Surface Elevation (m asl)	Depth (mbgs) / Elevation (m asl)
BH101-25	88.8	6.1 / 82.7
BH102-25	88.7	6.1 / 82.6
BH103-25	88.6	6.1 / 82.5
BH104-25	89.9	6.1 / 83.4
MW101-26	91.9	2.5/89.5
MW102-26	91.3	2.5/88.8
MW103-26	89.8	3.2/86.6
Rock Probes		
RP201-26	89.4	1.9 / 87.5
RP202-26	88.6	1.5 / 87.1
RP203-26	88.7	2.2 / 86.5
RP204-26	91.2	2.0 / 89.2
RP205-26	91.7	2.3 / 89.4
RP206-26	89.7	2.1 / 87.6



A summary of general lithological details is presented below.

3.1 Fill Material

Fill material was encountered from the surface in all borehole locations with a thickness ranging from 0.8 to 2.3 m. The fill material varies in composition between each borehole but is generally cohesionless. The material consists of dark brown sand and silt with trace gravel to some gravel. Rootlets were noted in boreholes BH101-25 and BH102-25, plastic debris was noted in borehole BH101-25, and brick and asphalt debris was noted in borehole BH104-25. Cobbles and boulders were also observed within the fill material at all borehole locations.

3.2 Native Mineral Soils

Native mineral soils were encountered underlying the fill material at 3 of the borehole locations (BH102-25 through BH104-25). The native material is cohesionless and consisted of brown or grey brown silty sand to sand and silt with trace to some gravel, trace clay. Cobbles and boulders were noted in the native material in boreholes BH102-25 and BH103-25.

The native material was encountered at depths ranging from 0.8 to 2.3 mbgs and extended to depths ranging from 1.3 to 2.8 mbgs. The native material has a thickness measured 1.8 m in BH102-25 and 0.5 m in boreholes BH103-25 and BH104-25.

3.3 Bedrock

All boreholes were terminated on the presumed underlying bedrock at the site. The validity of the bedrock contact was confirmed by rock coring and terminated at target depths of about 6.1 mbgs.

The bedrock is limestone of the Gull River Formation, the rock in this area is generally grey, thinly to medium bedded, slightly decomposed, moderately fractured, and of very poor to good quality.

It should be noted that site grades have changed since the time of completion of the geotechnical investigation. Surface elevations and depth to refusal noted will likely differ, however refusal elevations encountered at each location should be the similar. As previously



discussed, refusal may have also occurred on boulders within the overburden and do not necessarily indicate bedrock. This is likely the case for BH27-22.

3.4 Subsurface Investigations by Others

The subsurface information is provided in a signed and sealed engineering report and the information contained is relied upon as factual.

A geotechnical investigation was completed by others for Wateridge Village, which included boreholes advanced within the subject site of this investigation (Paterson Group, 2025). All borehole logs were reviewed by Cambium for all holes completed on or near the property. The locations of these boreholes are shown on the attached Figure 2.

The boreholes were advanced to practical refusal, which due to the consistency of confirmed bedrock, is presumed to be on or near the top of bedrock. A summary of the boreholes advanced by Others is provided in the table below:

Table 2 Summary of Boreholes by Others

Borehole ID	Approximate Surface Elevation (m asl)	Refusal Depth (mbgs) / Elevation (m asl)	Approximate Location
BH1-22	87.9	1.8 / 86.1	Codd's Road, west of development
BH2-22	89.2	1.3 / 87.9	Codd's Road, northwest of development
BH3-22	88.4	1.1 / 87.3	Phase 2
BH4-22	89.2	2.1 / 87.1	Codd's Road, north of development
BH8-22	88.8	2.3 / 86.6	Phase 3
BH27-22	89.7	0.4 / 89.3	Phase 2
BH59-22	88.0	2.0 / 86.0	Intersection of Codd's Road and Tawadina Road
BH61-22	89.8	2.5 / 87.2	Phase 1
BH1-23	89.0	2.2 / 86.8	Phase 2
BH2-23	89.2	3.1 / 86.2	Phase 1
BH14-27	90.5	1.8 / 88.7	Phase 1



Based on review of the previously completed borehole information, the subsurface conditions at the site generally consist of cohesionless fill material overlying shallow bedrock. Some native deposits were encountered underlying the fill material at select locations. The native deposits generally consist of cohesionless deposits of silty sand or glacial till. Anticipated bedrock depths range from 0.4 to 3.1 mbgs (Elevation 86.0 to 89.3 m asl).

A copy of the relevant borehole logs are provided in Appendix B and the approximate locations of the boreholes, based on the borehole location plan provided in the geotechnical report, are provided on our attached Figure 2.



4.0 Groundwater Investigation

4.1 MECP Well Records Assessment

According to the WWIS well records within 500 m of the Site (Figure 3), a total of 69 well records were identified. 60 of the well records were completed within overburden, and 9 well records were completed within bedrock. Well uses were reported as 23 monitoring/observation/test wells, 14 abandoned wells, 2 domestic supply wells and 30 well records did not contain information. The records for these wells are provided in Appendix C. A summary of the depths, static water levels, and pumping rates for the WWIS well records are shown in Table 3.

Table 3 Summary of Surrounding Water Well Record Information

Well Type		Depth (mbgs)	Water Found at (mbgs)	Static Water Level (mbgs)	Recommended Pumping Rate (L/min)
Overburden Wells = 60	Minimum	2.74	1.57	NV	NV
	Maximum	14.00	3.20	NV	NV
	Geometric Mean	5.57	2.24	NV	NV
Bedrock Wells = 9	Minimum	3.42	3.00	13.72	23*
	Maximum	72.54	72.54	15.24	23*
	Geometric Mean	11.96	21.60	14.46	23*

* Only one value reported

NV = No value reported

4.2 Monitoring Well Installation

As discussed in Section 3.0, four monitoring wells, denoted as BH101-25, BH102-25, BH103-25 and BH104-25, were installed at the Site by Marathon Underground under the supervision of Cambium staff on December 8th, 2025. Three additional monitoring wells, denoted as MW101-26, MW102-26 and MW103-26, installed by Forage Downing Drilling under the supervision of Cambium staff on March 20th, 2026.

Borehole logs indicate BH101-25 through BH104-25 were installed in bedrock, and MW101-26 through MW103-26 were installed in overburden material. Well construction details and



measured water levels are summarized in Table 4 and well logs are included in Appendix B. It should be noted that BH101-25 and BH104-25 were not available during April and May Site visits. BH101-25 was not suitable for testing, and BH104-25 was expected to have been abandoned.

Table 4 Monitoring Well Construction Details

Well ID	Ground Surface (mASL)	Stick Up (mags*)	Depth (mbgs)	December 16, 2025		April 2, 2026		May 14, 2026	
				mbgs	m asl	mbgs	m asl	mbgs	m asl
BH101-25	88.8	0.84	6.10	4.31	84.5	Obstructed		Obstructed	
BH102-25	88.7	0.89	6.11	2.15	86.6	2.95	85.8	-	-
BH103-25	88.6	0.80	6.05	3.23	85.4	3.29	85.3	-	-
BH104-25	89.9	0.98	6.10	4.61	85.3	Not located		Not located	
MW101-26	91.9	0.85	2.45	Not yet constructed		Dry at 2.5	Dry at 89.4	Dry at 2.5	Dry at 89.4
MW102-26	91.3	0.91	2.34	Not yet constructed		Dry at 2.5	Dry at 88.4	Dry at 2.5	Dry at 88.4
MW103-26	89.8	0.85	3.17	Not yet constructed		0.97	88.9	0.87	88.93

*mags = meters above ground surface

4.3 Single Well Hydraulic Tests

Cambium staff visited the Site on April 12th, 2026 to perform in-situ single well hydraulic tests (SWHTs) on select monitoring wells.

Rising head tests were conducted in each well by inducing an instantaneous change in head (water level) in the monitoring wells. Water level changes were achieved by purging the well dry with Waterra tubing and foot valve and monitoring well recovery.

Water level recovery was monitored using a Solinst Levellogger pressure transducer data logger, with manual measurements collected simultaneously at regular intervals.

The hydraulic conductivity of the geological formations adjacent to the screened portion of each well was estimated via the AquiferTest Pro software using the Hvorslev method



(Hvorslev, 1951). A summary of results is presented in Table 5. Detailed analytical reports are provided in Appendix D.

Table 5 Hydraulic Conductivity Estimates derived via SWHTs

Screened Stratigraphy	Monitoring Well	Hydraulic Conductivity, K (m/s)		
		Test 1	Test 2	Geometric Mean
Bedrock	BH102-25	4.63×10^{-7}	-	4.63×10^{-7}
	BH103-25	2.92×10^{-7}	4.18×10^{-7}	3.49×10^{-7}
Overburden	MW103-26	2.85×10^{-7}	2.69×10^{-7}	2.77×10^{-7}

Estimated hydraulic conductivities for the shallow well screened within the overburden ranged between 2.85×10^{-7} and 2.69×10^{-7} m/s, with an average value of 2.77×10^{-7} m/s. The estimated hydraulic conductivities for the deeper bedrock wells ranged between 2.92×10^{-7} and 4.63×10^{-7} m/s, with an average value of 3.84×10^{-7} m/s. The geometric mean for all materials tested (i.e., bedrock and overburden), was 3.37×10^{-7} m/s. These values are consistent with published values for the tested materials (Freeze & Cherry, 1979).

4.4 Groundwater Quality Analysis

Groundwater quality samples were collected from BH103-25 and MW103-26 on May 5, 2026. Samples were submitted to Paracel Laboratories Ltd. in Kingston for analysis of parameters in City of Ottawa Sanitary and Storm Sewer By-law (2025-94). The Certificates of Analysis for the samples are attached in Appendix E. A summary of parameters exceeding the Sewer By-law criteria is provided in Table 6.



Table 6 Summary of Result Exceedances

Parameter	Sanitary Sewer By- Law (mg/L)	Storm Sewer By-Law (mg/L)	Concentration (mg/L)			
			BH103-25	BH103-25 (filtered)	MW103-26	MW103-26 (filtered)
Total Suspended Solids (TSS)	350	15	339	-	1050	-
Manganese	5	0.05	0.17	<0.05	0.40	0.091
Zinc	3	0.04	0.05	<0.02	0.03	<0.02
Total phosphorus	10	0.4	0.24	-	1.01	-

Based on the results of the groundwater analysis, the following comments on groundwater quality are made.

- The unfiltered samples reported several parameters measured at concentrations in excess of the Storm Sewer By-law criteria for metals and TSS for both wells. Treatment of excavation water would be required prior to discharge to the municipal storm and sanitary sewer system.
- Elevated metals concentrations and phosphorous are expected be associated with the high suspended sediments content. Treatment of water generated during construction dewatering will be required if not reinfiltrated onto the Site, and discharged to an off-site receptor. If water is reinfiltrated within Site boundaries, it must be demonstrated that the water will not cause negative affects to off-site groundwater or surface water features.
- It is expected that treatment methods such as filtration and/or settlement will reduce concentrations of these parameters to acceptable levels, while also reducing total suspended solids and turbidity, if discharge of water off Site is required. A confirmatory sample of the treated discharge water should be collected to determine the efficacy of the treatment strategy in this scenario.



- Discharge water quality should be confirmed to be suitable for the selected receiver prior to the start of dewatering activities. A sewer use agreement must be formalized with the City of Ottawa before discharging to municipal sewers.
- Confirmatory sampling will be required for comparison to provincial water quality objectives (PWQO) if water is discharged overland off-site.

4.4.1 Permanent Foundation Drainage Considerations

It is expected that permanent foundation drainage will be required for the development, as discussed further in Section 5.3. It is understood that the permanent foundation drainage water will be discharged to the city storm sewer infrastructure. As a result, the discharge water must comply with City of Ottawa Sanitary and Storm Sewer By-law (2025-94).

As indicated in Table 6, exceedances for TSS, metals, and phosphorous were reported. Elevated metals concentrations and phosphorous are expected to be associated with the high suspended sediments content, as the filtered samples displayed significantly lower concentrations of metals. Therefore, treatment of the discharge water using a standard oil-grit separator (OGS) to remove suspended solids is expected to reduce TSS, metals, and phosphorus concentrations to acceptable levels.



5.0 Construction Dewatering Assessment

Cambium has provided the following construction dewatering assessment to the best of our knowledge of the proposed development, and the provided Site Plans (Appendix A).

It is Cambium's understanding that the proposed development will consist of 3 multi-storey apartment buildings ranging in height from 6 to 9 storeys, with one level of underground parking. The parking garages will be partial basement levels, with smaller footprints than the above towers. The three residential building footprints range in size from approximately 1,012 m² to 3,067 m².

The parking garage level FFE for the Phase 1 is currently set at 87.75 m asl and the parking garage level FFE for Phases 2 and 3 is currently set at 86.56 m asl.

The requirements for construction dewatering from open-cut excavations generally depend on a Site's soil and bedrock groundwater conditions including unit type, permeability or hydraulic conductivity, local groundwater levels, and the design of the proposed works, such as the foundation and/or basement elevation, as well as the size of proposed structure/excavation.

The assumptions pertaining to the construction dewatering conditions outlined herein should be confirmed by the Client at a later date.

5.1 Excavation Design Parameters

It is understood that the footprint of the proposed buildings will be irregular, with an approximate footprint area of 1,012 m² to 3,027 m². Foundation design parameters were obtained from the previously completed geotechnical investigation (Cambium, 2026). For construction planning, the foundation and underground parking excavations are assumed to consist of open excavations with footprints equivalent to the respective structures. The footprint of the underground parking is understood to be smaller than that of the building; however, detailed information regarding the underground parking layout was not available at the time this assessment was completed.

The parking garage level FFE for the Phase 1 is currently set at 87.75 m asl and the parking garage level FFE for Phases 2 and 3 is currently set at 86.56 m asl.



According to water level monitoring conducted from December 16, 2025 to May 14, 2026, water levels within the overburden ranged from greater than 2.5 mbgs to 0.87 m bgs, or 88.93 m asl to less than 89.4 m asl. Water levels within the bedrock ranged from 4.6 mbgs to 2.2 m bgs, or 84.5 m asl to 86.5 m asl. The highest recorded groundwater level elevation (88.93 m asl) was used as the static water level in dewatering calculations to provide the most conservative dewatering rates.

The calculations assumed that the overburden and bedrock aquifers underlying the Site act as a single unconfined, hydrogeological unit. It was also assumed that the construction excavation would extend 1 meter below the FFE of each building, and that the groundwater would need to be lowered 1 meter below the base of the excavation.

The hydraulic conductivities used for each dewatering estimate were determined from SWHT results obtained for monitoring wells on Site. The maximum hydraulic conductivities recorded at the Site monitoring wells were used in the dewatering calculations to provide the most conservative value for potential dewatering rates. The minimum, and geomean hydraulic conductivities were also used for each dewatering estimate to display a potential range of dewatering requirements.

The dewatering calculation parameters for each maximum rectangular excavation sections are described below and summarized in Table 7. Detailed calculations are provided in Appendix F

Table 7 Summary of Dewatering Calculation Parameters

Excavation	Length (m)	Width (m)	Groundwater Elevation (m asl)	Estimated Excavation Elevation (m asl)	Target Groundwater Elevation (m asl)	Aquifer Base Elevation (m asl)	Depth of Drawdown (m)
Phase 1	100	30	88.93	86.75	85.75	84.16	3.18
Phase 2	100	22	88.93	85.56	84.56	82.38	4.37
Phase 3	33	33	88.93	85.56	84.56	82.38	4.37



5.1.1 Dewatering Rates - Rectangular Excavation

A modified Dupuit-Forchheimer equation was used to estimate the dewatering rate required for the approximately square excavations required for each proposed building and underground parking (Powers J. P., Corwin, Schmall, & Kaeck, 2007):

$$Q = \frac{\pi K(H^2 - h^2)}{\ln(R_0/r_s)}$$

Where:

Q = dewatering rate (m^3/s)

K = hydraulic conductivity (m/s)

H = initial hydraulic head in aquifer (m)

h = target hydraulic head (initial hydraulic head – target drawdown) (m)

R_0 = distance to radial source (from excavation center) = $3000(H - h)\sqrt{K}$ (m)

r_s = equivalent single well radius (m)

For rectangular excavations, the equivalent radius (r_s) can be determined as the radius of a circle with the same area as the excavation, or with the same perimeter as the excavation.

Here, the equivalent area method was used such that

$$r_s = \sqrt{\frac{ab}{\pi}}$$

5.2 Estimated Construction Dewatering Rates

The estimated construction dewatering rates for the Phase 1, 2, and 3 buildings are provided below.

A safety factor has been applied to each calculation to account for unforeseen conditions and uncertainty in measured values. This yields a conservative estimate of the pumping rate required to decrease or maintain the groundwater levels and provides the dewatering contractor with some flexibility to accommodate circumstances should a higher volume of pumping be necessary. Also, the equation used in dewatering rate estimation is for a steady state condition during the construction stage. In general, at the beginning of the dewatering



pumping operation, the pumping rates will be higher than that the steady state rates, because initially the water stored in the soils is removed before the contribution from the recharge flow is noted.

If the contractor encounters a highly saturated granular soil layer during excavation, the contractor should be ready to pump at higher rates and be able to implement the mitigation measures. Construction dewatering rates should be revised once more detailed development plans are available for review.

It is noted that the following calculations are an approximation only, which can be further refined based on results observed during the construction phase of the proposed development. It is also noted that the dewatering calculations were completed to represent conditions during the period of highest groundwater levels. During the low groundwater season (i.e. late summer), it is possible that construction dewatering be significantly less.

5.2.1 Phase 1 Construction Dewatering Rates

Using the hydraulic conductivity estimates presented in Table 8, the estimated radius of influence from the edge of the building footprint ranges from 5.0 to 6.5 m. The estimated dewatering rate ranges from 19,800 L/day to 26,600 L/day (19.8 m³/day to 26.6 m³/day), which includes using a safety factor of 2 to account for uncertainty resulting from heterogeneity of subsurface materials, overburden drainage, precipitation, and other unknown factors.

Table 8 Calculated Construction Dewatering Rates – Phase 1

Construction Excavation		Hydraulic Conductivity (K)	Zone of Influence (R ₀)	Dewatering Rate (Q)		Dewatering Rate (Q) with Factor of Safety of 2
		(m/s)	(m)	(L/day)	(m ³ /day)	(L/day)
Phase 1	Max K	4.6 x 10 ⁻⁷	6.5	13,300	13.3	26,600
	Geom. Mean K	3.4 x 10 ⁻⁵	5.5	11,200	11.2	22,400
	Min K	2.7 x 10 ⁻⁶	5.0	9,900	9.9	19,800



To account for direct precipitation onto the excavations, a 20 mm daily rainfall was considered based on the City of Toronto Wet Weather Flow Management Guidelines (Nov. 2006). The total precipitation volume is given by the following formula:

$$\text{Total Runoff Volume (V) per day} = \text{Excavation Area} \times \text{Rainfall Intensity}$$

Given a footprint for the Phase 1 excavation of approximately 3,000 m², it is possible for an additional 60,000 L/day to accumulate within the excavation.

Accordingly, the total peak short-term dewatering rate during construction for the unit trenches was estimated to range from 79,800 L/day to 86,600 L/day.

5.2.2 Phase 2 Construction Dewatering Rates

Using the hydraulic conductivity estimates presented in Table 9, the estimated radius of influence from the edge of the building footprint ranges from 6.8 to 8.9 m. The estimated dewatering rate ranges from 24,400 L/day to 33,000 L/day (24.4 m³/day to 33.0 m³/day), which includes using a safety factor of 2 to account for uncertainty resulting from heterogeneity of subsurface materials, overburden drainage, precipitation, and other unknown factors.

Table 9 Calculated Construction Dewatering Rates – Phase 2

Construction Excavation		Hydraulic Conductivity (K)	Zone of Influence (R ₀)	Dewatering Rate (Q)		Dewatering Rate (Q) with Factor of Safety of 2
		(m/s)	(m)	(L/day)	(m ³ /day)	(L/day)
Phase 1	Max K	4.6 x 10 ⁻⁷	8.9	16,500	16.5	33,000
	Geom. Mean K	3.4 x 10 ⁻⁵	7.6	13,800	13.8	27,600
	Min K	2.7 x 10 ⁻⁶	6.8	12,200	12.2	24,400

To account for direct precipitation onto the excavations, a 20 mm daily rainfall was considered based on the City of Toronto Wet Weather Flow Management Guidelines (Nov. 2006). The total precipitation volume is given by the following formula:

$$\text{Total Runoff Volume (V) per day} = \text{Excavation Area} \times \text{Rainfall Intensity}$$



Given a footprint for the Phase 1 excavation of approximately 2,200 m², it is possible for an additional 44,000 L/day to accumulate within the excavation.

Accordingly, the total peak short-term dewatering rate during construction for the unit trenches was estimated to range from 68,400 L/day to 77,000 L/day.

5.2.3 Phase 3 Construction Dewatering Rates

Using the hydraulic conductivity estimates presented in Table 10, the estimated radius of influence from the edge of the building footprint ranges from 6.8 to 8.9 m. The estimated dewatering rate ranges from 18,000 L/day to 24,400 L/day (18.0 m³/day to 24.4 m³/day), which includes using a safety factor of 2 to account for uncertainty resulting from heterogeneity of subsurface materials, overburden drainage, precipitation, and other unknown factors.

Table 10 Calculated Construction Dewatering Rates – Phase 3

Construction Excavation		Hydraulic Conductivity (K)	Zone of Influence (R ₀)	Dewatering Rate (Q)		Dewatering Rate (Q) with Factor of Safety of 2
		(m/s)	(m)	(L/day)	(m ³ /day)	(L/day)
Phase 1	Max K	4.6 x 10 ⁻⁷	8.9	12,200	12.2	24,400
	Geom. Mean K	3.4 x 10 ⁻⁵	7.6	10,200	10.2	20,400
	Min K	2.7 x 10 ⁻⁶	6.8	9,000	9.0	18,000

To account for direct precipitation onto the excavations, a 20 mm daily rainfall was considered based on the City of Toronto Wet Weather Flow Management Guidelines (Nov. 2006). The total precipitation volume is given by the following formula:

$$\text{Total Runoff Volume (V) per day} = \text{Excavation Area} \times \text{Rainfall Intensity}$$

Given a footprint for the Phase 1 excavation of approximately 1,100 m², it is possible for an additional 22,000 L/day to accumulate within the excavation.

Accordingly, the total peak short-term dewatering rate during construction for the unit trenches was estimated to range from 40,000 L/day to 46,400 L/day.



5.3 Permanent Drainage & Dewatering

Long-term foundation drainage is anticipated for the completed building, based on the following evidence:

- The parking garage level FFE for the Phase 1 is currently set at 87.75 mASL and the parking garage level FFE for Phases 2 and 3 is currently set at 86.56 mASL, all of which are below the expected seasonally high water table elevations in the overburden.
- According to water level monitoring conducted from December 16, 2025 to May 14, 2026, water levels within the overburden ranged from greater than 2.5 mbgs to 0.87 mbgs, or 88.93 m asl to less than 89.4 m asl. Water levels within the bedrock ranged from 4.6 mbgs to 2.2 m bgs, or 84.5 m asl to 86.5 m asl.
- Estimated hydraulic conductivities for the shallow well screened within the overburden ranged between 2.85×10^{-7} and 2.69×10^{-7} m/s, with an average value of 2.77×10^{-7} m/s. The estimated hydraulic conductivities for the deeper bedrock wells ranged between 2.92×10^{-7} and 4.63×10^{-7} m/s, with an average value of 3.84×10^{-7} m/s. Hydraulic conductivities in the overburden and bedrock formation indicate mid to low permeability units, and therefore, significant foundation drainage measures are not expected.
- Based on the temporary construction dewatering assessment, and excluding rainfall input into an open excavation, the estimated maximum long-term foundation drainage requirement is approximately 18,000 to 33,000 L/day. This estimate assumes groundwater levels would be maintained during operation at approximately 2 m below the FFE for each building's parking garage.
- Groundwater conditions are inherently variable and may fluctuate seasonally, spatially across a site, and over time. Accordingly, the assessment is based on groundwater conditions observed during the investigation and may not fully capture future variations.

It is recommended that exterior grades for the proposed structures be sloped away from the building walls to promote adequate drainage and prevent ponding of water and build up of hydrostatic pressures.



More information on specific recommendations regarding basement drainage designs can be found under a separate letterhead, titled: “Addendum 1 – Subfloor Drainage System Diagram and Additional Subsurface Information – Proposed Development – 100 Bareille Snow Street, Ottawa, Ontario” (Cambium, 2026).

5.4 Assessment of Required Regulatory Permits or Registration

Any construction dewatering or other water taking in Ontario is governed by The Ontario Water Resources Act (Ontario Regulation 387/04 and/or Ontario Regulation 63/16) and/or the Environmental Protection Act (Registrations under Part II.2).

Where construction dewatering is required in amounts in excess of 50,000 L/day, registration through Environmental Activity and Sector Registry (EASR) is required. For dewatering rates less than 50,000 L/day, EASR registration is not required.

As the maximum estimated dewatering rate for the temporary construction activities is expected to be more than 50,000 L/day, EASR registration is expected to be required for the proposed development. It should be noted that the primary driver for water taking is due to the calculated precipitation input, and groundwater taking may be less than 50,000 L/day.

A supporting water taking and discharge report in accordance with Ontario Regulation 63/16 would be required to support registration on the EASR.

Permanent foundation drainage, if required, is not anticipated to be significant. Ontario Regulation 387/04 for residential foundation drainage systems requires Permit To Take Water (PTTW) for water taking of more than 379,000 L/day, and is therefore not expected to be required for this proposed development.

5.5 Zone of Influence and Impact Assessment

As part of the dewatering calculations discussed in Section 5.2, the ZOI was calculated to range from 5.0 to 8.9 meters, and therefore, is not expected to extend off the property boundaries. As all properties in the area of the Site are provided water services municipally, no impacts to neighbouring water supply wells are anticipated due to the proposed development. No significant impacts to surrounding natural features are anticipated.



Care should be taken during construction to ensure no ground settlement occurs, which is the responsibility of the contractor. As required, the contractor should develop and design settlement monitoring plans and implement them based on site conditions encountered before, during, and after construction.



6.0 Conclusions and Recommendations

Cambium Inc. completed a hydrogeological assessment in support of the proposed retirement development at Block 21 of Wateridge Village in Ottawa, Ontario. The assessment included groundwater monitoring, hydraulic conductivity testing, groundwater quality sampling, and construction dewatering calculations to evaluate potential groundwater-related constraints associated with the proposed development. The proposed development consists of three multi-storey residential buildings with one level of underground parking. This report presents the findings of the assessment and provides recommendations related to temporary construction dewatering and long-term foundation drainage requirements.

The Site is located within the Ottawa Valley Clay Plains physiographic region and is characterized by shallow overburden overlying Paleozoic limestone bedrock of the Gull River Formation. Site drainage is expected to generally flow north-northwest toward the Ottawa River, which is located approximately 700 m north of the Site. The Site is situated within a Highly Vulnerable Aquifer due to shallow bedrock conditions; however, no significant natural heritage features or regulated areas were identified within the development area. Best management practices should be implemented during construction to minimize potential impacts to groundwater quality.

Groundwater monitoring and hydraulic testing indicate that groundwater conditions at the Site are associated with low- to moderate-permeability overburden and shallow fractured bedrock units. Hydraulic conductivity values derived from single well hydraulic tests ranged from approximately 2.69×10^{-7} to 4.63×10^{-7} m/s, which are consistent with published values for similar materials.

Groundwater quality testing identified exceedances of select Sewer By-law parameters, primarily associated with elevated suspended solids and metals concentrations. Treatment of water generated during construction dewatering will be required if not reinfiltrated onto the Site, and discharged to an off-site receptor. If water is reinfiltrated within Site boundaries, it must be demonstrated that the water will not cause negative affects to off-site groundwater or surface water features.



It is expected that treatment methods such as filtration and/or settlement will reduce concentrations of these parameters to acceptable levels, while also reducing total suspended solids and turbidity, if discharge of water of Site is required.

A confirmatory sample of the treated discharge water should be collected to determine the efficacy of the treatment strategy in this scenario. Discharge water quality should be confirmed to be suitable for the selected receiver prior to the start of dewatering activities. A sewer use agreement must be formalized with the City of Ottawa before discharging to municipal sewers.

Confirmatory sampling will be required for comparison to provincial water quality objectives (PWQO) if water is discharged overland off-site.

Temporary construction dewatering will likely be required to facilitate excavation for the proposed underground parking garages, as the excavation depths are expected to extend below the seasonally high groundwater table. Estimated peak short-term dewatering rates during construction, including direct precipitation input, are anticipated to range from approximately 40,000 L/day to 93,000 L/day and are expected to require registration through the Environmental Activity and Sector Registry (EASR). It should be noted that a significant portion of the estimated construction dewatering rates are due to direct precipitation input.

A supporting water taking and discharge report in accordance with Ontario Regulation 63/16 would be required to support registration on the EASR.

The estimated long-term foundation drainage requirements are expected to range from approximately 18,000 to 33,000 L/day. More information on specific recommendations regarding basement drainage designs can be found in the Cambium Geotechnical Report submitted under a separate letterhead (Cambium, 2026). Treatment of the foundation drainage discharge water using a standard oil-grit separator (OGS) to remove suspended solids is expected to reduce TSS, metals, and phosphorus concentrations to acceptable levels.

The calculated zone of influence associated with construction dewatering is not expected to extend beyond the Site boundaries, and significant impacts to surrounding properties, municipal services, or natural features are not anticipated.



Care should be taken during construction to ensure no ground settlement occurs, which is the responsibility of the contractor. As required, the contractor should develop and design settlement monitoring plans and implement them based on site conditions encountered before, during, and after construction.



7.0 Closing

We trust that the information in this submission meets your current requirements. If you have any questions regarding the contents of this report, please contact the undersigned.

Respectfully submitted,

Cambium Inc.

Signed by:

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Brent Redmond, M.A.Sc., P. Geo.
Project Manager / Hydrogeologist

DS



2026-07-16

P:\24800 to 24899\24896-001 Wateridge Lifestyles -GEO- Block 21 Hemlock Rd\09-Deliverables\REPORT - Dewatering\2026-07-16 RPT Dewatering- Wateridge.docx



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Powers, J. P., Corwin, A. B., Schmall, P. C., & Kaeck, W. E. (2007). *Construction Dewatering and Groundwater Control*.



9.0 Statement of Qualifications & Limitations

Limited Warranty

Cambium relies on its client to provide instructions on the scope of work to be performed. Cambium undertakes all work in accordance with applicable accepted industry practices and standards, and with the degree of care and skill ordinarily exercised by professionals performing similar services for similar projects in the same region. Unless required under applicable laws, other than as expressly stated herein, no other warranties or conditions, either expressed or implied, are made regarding the services, work or reports provided.

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The findings, results, information and data prepared by Cambium are based on the materials, documents and information provided by the client to Cambium and on the facts, conditions and circumstances encountered by Cambium during the performance of the work. In formulating its findings, results, information and data, Cambium assumes that the information, documents and materials provided by the client to Cambium are factual, accurate and represent a true depiction of the circumstances that exist at the Project. Cambium relies on its client to inform Cambium if there are changes to any such information, documents and materials. Cambium does not review, analyze or attempt to verify the accuracy or completeness of the information, documents or materials provided by the client, other than in accordance with applicable accepted industry practice. Cambium will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to Cambium, are unknown by Cambium, or are otherwise concealed from Cambium during the provision of its services.

Facts, conditions, information and circumstances may vary with time and locations and Cambium's work is based on a review of such matters as they existed at the particular time and location indicated in the findings, results, information and data prepared by Cambium. No assurance is made by Cambium that the facts, conditions, information, circumstances or any underlying assumptions made by Cambium in connection with the work performed will not change after Cambium has completed its work. If any such changes occur or additional information is obtained, Cambium should be advised and requested to consider if the changes or additional information affect its work.

When preparing reports, Cambium considers applicable legislation, regulations, governmental guidelines and policies. Cambium is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, governmental guidelines and policies is for information purposes only and is not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Site Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work considers any locations or times other than those from which information, sample results and data was specifically received, the work shall be based on a reasonable extrapolation from such information, sample results and data, but the actual conditions encountered may vary from those extrapolations.

Only conditions at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested and paid for by the client. Any physical or other aspects of the site chosen for study by the client, or any other matter not specifically addressed in findings, results, information and data prepared by Cambium, are beyond the scopes of the work performed by Cambium and such matters have not been investigated or addressed.

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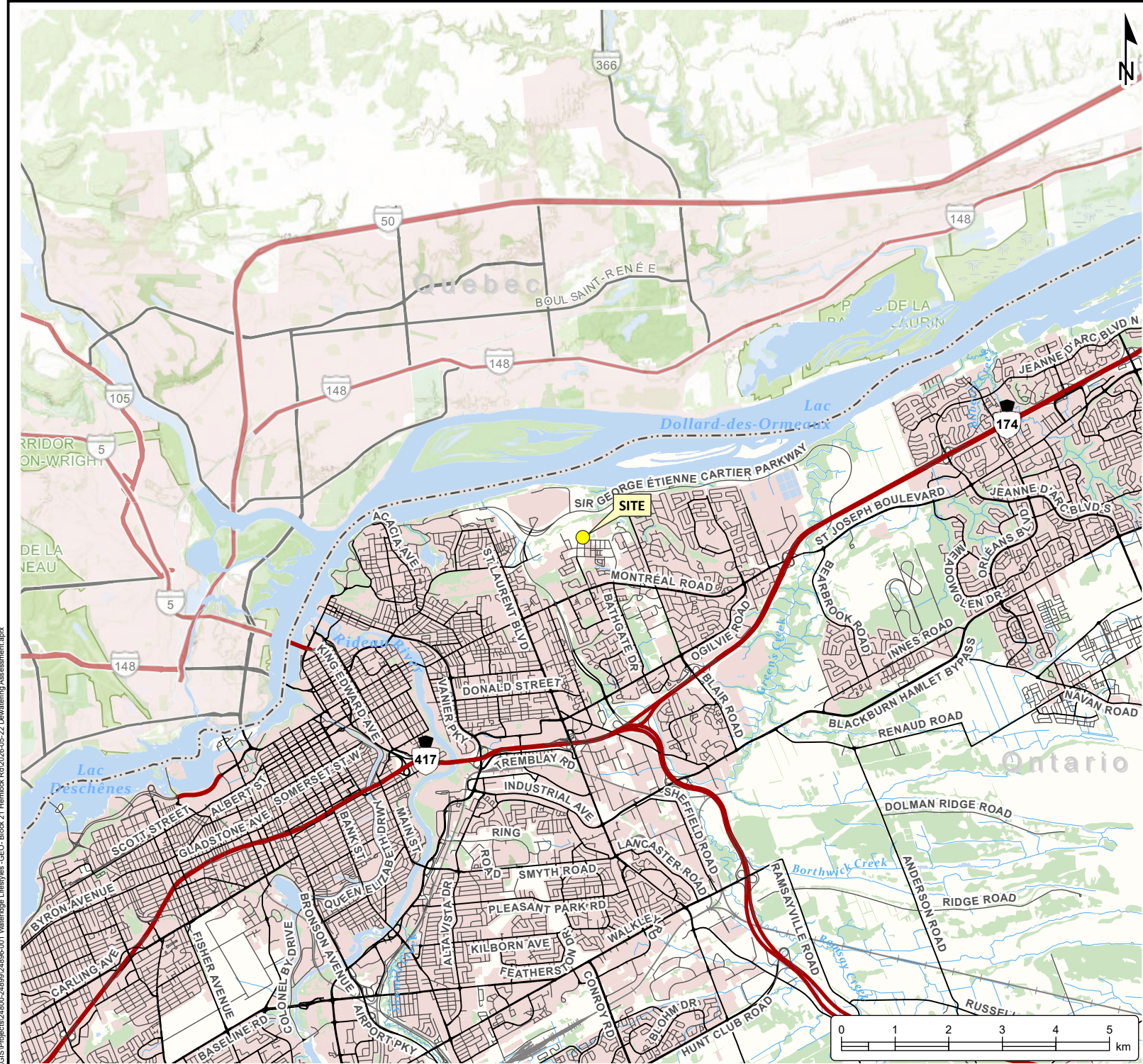
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Personal Liability

The client expressly agrees that Cambium employees shall have no personal liability to the client with respect to a claim, whether in contract, tort and/or other cause of action in law. Furthermore, the client agrees that it will bring no proceedings nor take any action in any court of law against Cambium employees in their personal capacity.



Appended Figures



**DEWATERING
ASSESSMENT**
WATERIDGE LIFESTYLES LTD.
Block 21 - Wateridge Village
Ottawa, Ontario

LEGEND

- Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Provincial Border
- Water Area
- Wooded Area
- Built Up Area

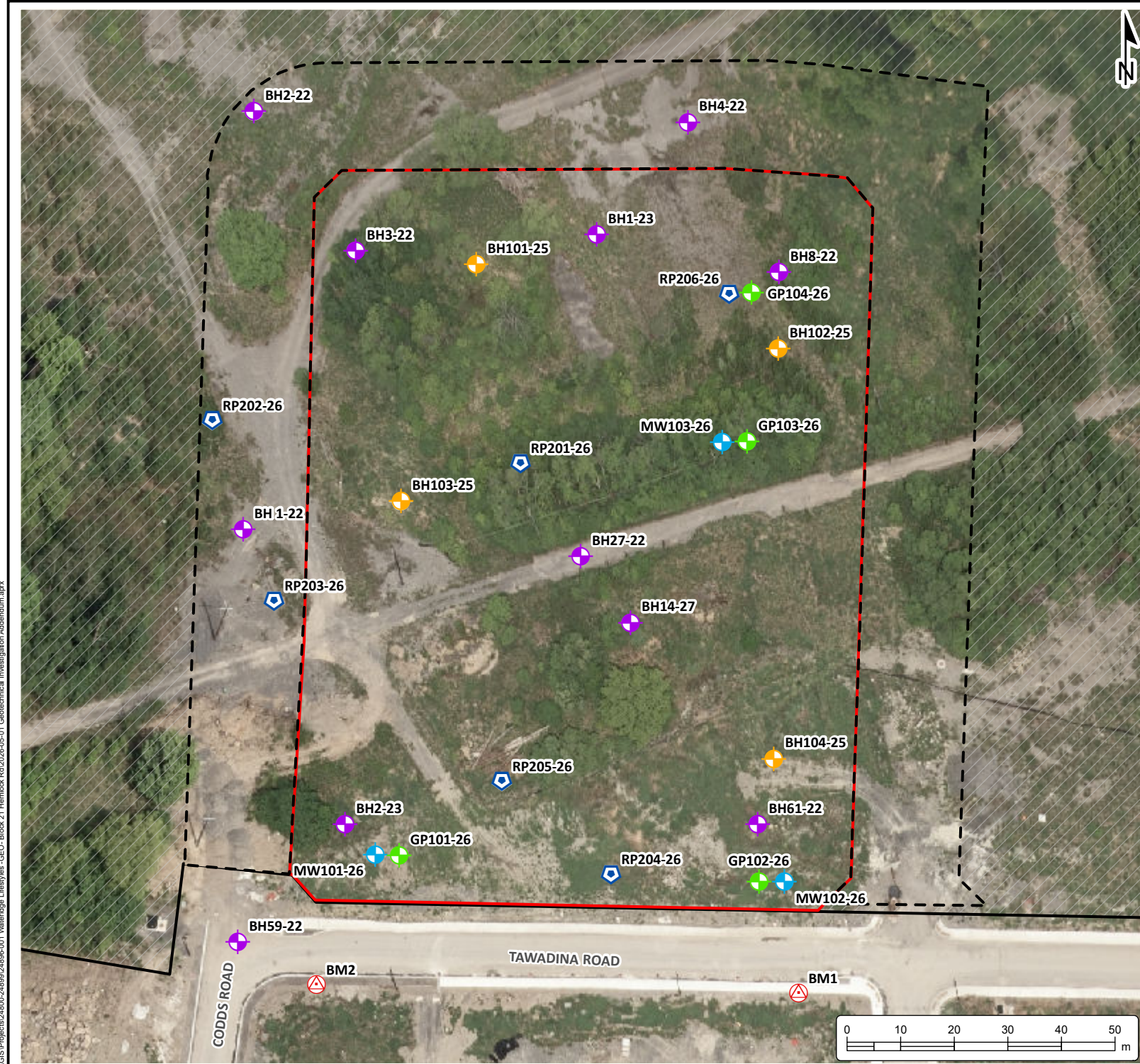
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SITE LOCATION PLAN

Project No.:	24896.001	Date:	May 2026
Scale:	1:100,000	Projection:	NAD 1983 UTM Zone 18N
Created by:	CC	Checked by:	BR
Figure:			1



**GEOTECHNICAL
INVESTIGATION**
WATERIDGE LIFESTYLES LTD.
Block 21 - Wateridge Village
Ottawa, Ontario

LEGEND

- Benchmark
- Borehole
- Paterson Borehole
- Monitoring Well
- Rock Point
- Guelph Permeameter Testing Location
- Proposed Road
- Site (approximate)
- Subject Property (approximate)

Notes:
- BM1 and BM2 are top nut of fire hydrant.
- Aerial Imagery from the Digital Raster Acquisition Project Eastern Ontario (DRAPe) 2024. Source: Ontario Ministry of Natural Resources and Forestry. © Copyright: 2024 King's Printer of Ontario. All Rights Reserved.
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TEST HOLE LOCATION PLAN

Project No.:	24896.001	Date:	May 2026
Scale:	1:1,000	Projection:	NAD 1983 UTM Zone 18N
Created by:	NLB	Checked by:	BV
			Figure: 2



**DEWATERING
ASSESSMENT**
WATERIDGE LIFESTYLES LTD.
Block 21 - Wateridge Village
Ottawa, Ontario

LEGEND

- Water Well Record
- Study Area (500m)
- Site (approximate)

Notes:
- Aerial imagery from the Digital Raster Acquisition Project Eastern Ontario (DRAPE) 2024. Source: Ontario Ministry of Natural Resources and Forestry.
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**MECP WELL RECORDS
WITHIN 500M**

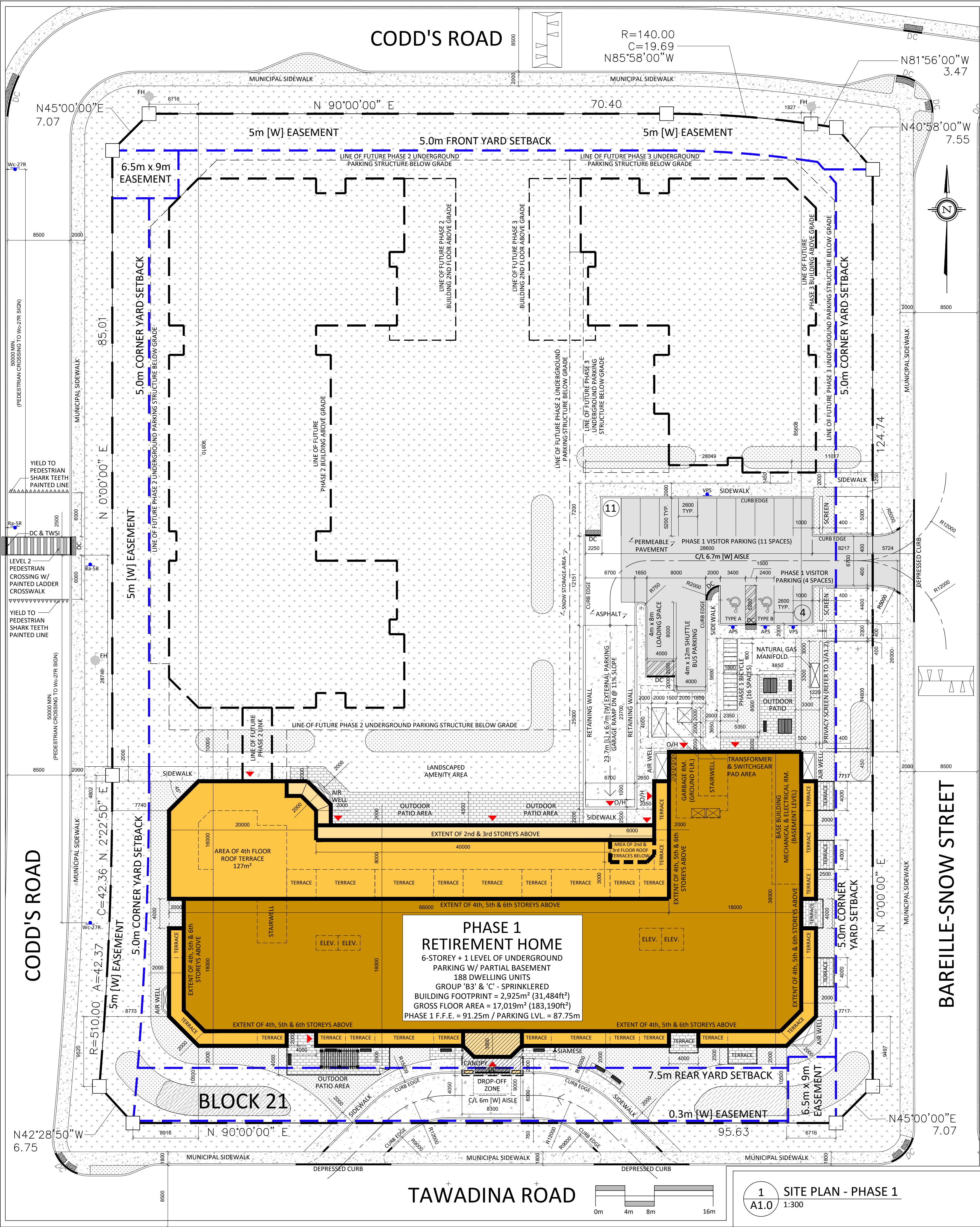
Project No.:	24896.001	Date:	May 2026
Scale:	1:6,300	Projection:	NAD 1983 UTM Zone 18N
Created by:	CC	Checked by:	BR
			3



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

Appendix A

Property and Land Information



Site Information

Legal Description: Part of Lot 23, Concession 1 (Ottawa Front), Geographic Township of Gloucester and Part of Reserve Block 15 on 4M-1651

Block 21 - Lot Area: 14,162m² (1.4162 hectares or 3.5 acres)

Disclaimer: The concept site plan has been compiled using information contained in the Plan of Subdivision - Registered Plan 4M-1651 provided by Annis, O'Sullivan, Vollebekk Ltd., Ontario Land Surveyors.

Block 21 - Zoning Information GM31 H(30)

GM31 H(30)	Zoning Requirement	Provided
Minimum Front Yard with Residential Land Use at Grade:	5.0m	85.6m (Codd's Road - North)
Minimum Corner Side Yard with Residential Land Use at Grade:	5.0m	7.7m (Bareille-Snow Street & Codd's Rd. - West)
Minimum Interior Side Yard with Residential Land Use at Grade:	3.0m	N/A
Minimum Rear Yard with Residential Land Use at Grade:	7.5m	9.0m (Tawadina Road)
Additional Front & Corner Side Yard Setback Required for 4th Floor:	2.0m	2.0m
Minimum Separation between Portions of a Building above 4 Storeys:	23.0m	28.0m (Phase 1 & Future Phase 2) 39.0m (Phase 1 & Future Phase 3)
Maximum Building Area of Floor Plates at 7th Floor and Above:	750m ²	N/A (6-Storey Building)
Maximum Building Height:	30.0m	23.625m (Phase 1 Building / 6-Storeys)

Phase 1 Retirement Home Building Information

Floor Level	Area	Group 'B3' & 'C' Details	Rentable Area of Suites / GFA
Basement Floor Area:	2,956m ² (31,818ft ²)	(0) Dwelling Units	0m ² (0ft ²) = 0% of GFA
Ground Floor Area:	2,925m ² (31,484ft ²)	(6) Dwelling Units	468m ² (5,038ft ²) = 16% of GFA
2nd Floor Area:	2,773m ² (29,848ft ²)	(49) Dwelling Units	1,789m ² (19,257ft ²) = 64% of GFA
3rd Floor Area:	2,773m ² (29,848ft ²)	(49) Dwelling Units	1,789m ² (19,257ft ²) = 64% of GFA
4th Floor Area:	1,864m ² (20,064ft ²)	(28) Dwelling Units	1,520m ² (16,361ft ²) = 82% of GFA
5th Floor Area:	1,864m ² (20,064ft ²)	(28) Dwelling Units	1,536m ² (16,533ft ²) = 82% of GFA
6th Floor Area:	1,864m ² (20,064ft ²)	(28) Dwelling Units	1,536m ² (16,533ft ²) = 82% of GFA
Gross Floor Area (GFA):	17,019m ² (183,190ft ²)	(188) Dwelling Units	8,638m ² (92,979ft ²) = 51% of GFA

Proposed Building Height: 23.625m measured from grade to top of parapet
Number of Storeys: (6) storeys above grade

Phase 1 Vehicular Parking Information

Phase 1 Retirement Home Building Parking	Zoning Requirement	Provided
Resident: 0.25 spaces per Unit = 188 units x 0.25 = 47 spaces	Table 101 - R20 - Column II	47 spaces (provided in below grade indoor parking garage)
Staff: 1 space per 100m ² GFA used for medical, health or personal services = 900m ² GFA x 1 = 9 spaces	Table 101 - R20 - Column II	13 spaces * (provided in below grade indoor parking garage)
Visitor: No requirement for Retirement Home		15 spaces ** (surface parking)
Total Phase 1 Building - Vehicular Parking Required:	= 56 spaces	
Total Phase 1 Building - Vehicular Parking Provided:	= 75 spaces consisting of (15) exterior surface & (60) indoor parking	

General Phase 1 Parking Space Note:

- * When the Phase 2 Senior's Apartment Building and underground parking structure is completed, (2) standard indoor parking spaces for Phase 1 staff will be removed to accommodate for the 6.7m [W] drive aisle connection between the Phase 1 & Phase 2 indoor parking garages (Refer to Master Plan - A1.1 and Master Plan - Underground - A1.2).
- ** When the Phase 3 Senior's Apartment Building and underground parking structure is completed, (11) standard exterior surface spaces for Phase 1 visitors will be transferred to the Phase 3 parking requirements and consisting of (10) standard exterior surface spaces for Phase 3 visitors and (1) Phase 3 loading space (Refer to Master Plan - A1.1 and Master Plan - Underground - A1.2).

Phase 1 Bicycle Parking Information

Phase 1 Retirement Home Building Parking	Zoning Requirement
Resident: 0.25 spaces per Unit = 188 units x 0.25 = 47 spaces	Table 111A (a) - Retirement Home
Total Phase 1 Building - Bicycle Parking Required:	= 47 spaces
Total Phase 1 Building - Bicycle Parking Provided:	= 50 spaces consisting of: 16 (surface) & 34 (indoor) bicycle spaces @ 0.6m x 1.8m space per bicycle with minimum 1.5m access aisle

Site Plan & Master Plan Symbol Legend

	- Denotes proposed Phase 1 retirement home building		- Denotes shrub / perennial bed		- Denotes accessible parking
	- Denotes proposed Phase 2 senior's apartment building		- Denotes bio-retention area		- Denotes depressed curb
	- Denotes proposed Phase 3 senior's apartment building		- Denotes building feature above		- Denotes high colour contrast pavement marking
	- Denotes concrete surface		- Denotes property line		- Denotes tactile walking surface indicator (TWSI)
	- Denotes unit paver surface		- Denotes site setback		- Denotes aluminum sign
	- Denotes seed/ sod ground landscape cover		- Denotes proposed phasing line		- Denotes bench seating
			- Denotes c/l drive aisle		- Denotes fire hydrant
			- Denotes building entrance		

ISSUE RECORD

REV.	DESCRIPTION	DATE
01	FOR SITE PLAN APPROVAL	01/20/2026
02	FOR SITE PLAN APPROVAL	02/27/2026

GENERAL NOTES

- DO NOT SCALE DRAWINGS. ALL MEASUREMENTS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- ALL WORK DESCRIBED UNDER THIS CONTRACT TO COMPLY WITH ONTARIO BUILDING CODE, 2024 AND/OR NATIONAL BUILDING CODE, 2020 AND OTHER CODES AND BY-LAWS IN EFFECT.
- THIS DRAWING IS AN INSTRUMENT OF SERVICE AND IS PROTECTED BY COPYRIGHT. COPYRIGHT FOR THE ARCHITECT'S INSTRUMENT OF SERVICE BELONGS TO THE ARCHITECT. COPIES, INCLUDING ELECTRONIC COPIES, MAY ONLY BE USED OF THE PURPOSE INTENDED AND FOR A ONE-TIME USE, ON THE SAME SITE, AND FOR THE SAME PROJECT AND MAY NOT BE OFFERED FOR SALE OR TRANSFER WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT.

PROJECT TEAM

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GEOTECHNICAL ENGINEER	CAMBUM CONSULTING & ENGINEERING 31 HYPERION COURT, SUITE 102, KINGSTON, ON K7K 7G3 T: 613-389-2323 E: Blasco.Vijayabaskaran@cambium-inc.com
LANDSCAPE ARCHITECT	NAK DESIGN STRATEGIES 1285 WELLINGTON STREET WEST, OTTAWA, ON K1Y 3A8 T: 613-237-2345 ext. 25 E: mnuckey@nak-design.com
STRUCTURAL ENGINEER	DNA STRUCTURAL LTD. 333 PRESTON STREET, SUITE 110, OTTAWA ON, K1S 5N4 T: 613-651-9490 E: Colin@dna-structural.ca
MECHANICAL & ELECTRICAL ENGINEER	GOODEY, WEEDMARK & ASSOCIATES LTD. 1688 Woodward Drive, Ottawa, ON K2C 3R8 T: 613-727-5111 E: rajv@gwal.com

KEY PLAN

ONTARIO ASSOCIATION OF ARCHITECTS

TOMMY R. BONHOMME
LICENCE 11096

T Bonhomme Architect

PROJECT TITLE

WATERIDGE LIFESTYLES - PHASE 1 RETIREMENT HOME
BLOCK 21 WATERIDGE VILLAGE
200 CODD'S ROAD, OTTAWA ON K1K 5C6

DRAWING LIST

SITE PLAN - PHASE 1

JOB No.	TBA-2026-01	DRAWING No.
DATE	01/20/2026	
SCALE	AS NOTED	

A1.0

DRAWN & REVIEWED BY T.B.

FILE No. xx / PLAN No. xx

CODD'S ROAD

1
A1.0
Concept Site Plan
1:300

0m 4m 8m 16m

TAWADINA ROAD

CODD'S ROAD

BAREILLE-SNOW STREET

Site Information

Legal Description: Part of Lots 21, 22 and 23, Concession 1 (Ottawa Front), Geographic Township of Gloucester
Registered Plan 4M-1651, City of Ottawa

Block 21 - Lot Area: 14,162m² (1.4162 hectares or 3.5 acres)

Disclaimer: The concept site plan has been compiled using information contained in the Plan of Subdivision - Registered Plan 4M-1651 provided by Annis, O'Sullivan, Vollebakk Ltd., Ontario Land Surveyors.

Block 21 - Zoning Information GM31 H(30)

GM31 H(30)	Zoning Requirement	Provided
Minimum Front Yard with Residential Land Use at Grade:	5.0m	>5.0m (Codd's Road - North)
Minimum Corner Side Yard with Residential Land Use at Grade:	5.0m	>5.0m (Bareille-Snow Street & Codd's Road)
Minimum Interior Side Yard with Residential Land Use at Grade:	3.0m	N/A
Minimum Rear Yard with Residential Land Use at Grade:	7.5m	>7.5m (Tawadina Road)
Additional Front & Corner Side Yard Setback Required for 4th Floor:	2.0m	2.0m
Minimum Separation between Portions of a Building above 4 Storeys :	23.0m	24.0m
Maximum Building Area of Floor Plates at 7th Floor and Above:	750m ²	Phase 1 - N/A / Phase 2 - 744m ² / Phase 3 - 680m ²
Maximum Building Height:	30.0m	20.85m (Phase 1 Building / 6-Storeys) 30.0m (Phase 2 & 3 Buildings / 9-Storeys)

Phase 1 Retirement Home Building Information

Proposed Retirement Home Building Details Group 'B3' & 'C' Retirement Home Building

Basement Floor Area:	959m ² (10,323ft ²)	
Ground Floor Area / Footprint:	3,027m ² (32,582ft ²)	(8) Dwelling Units
2nd Floor Area:	2,943m ² (31,678ft ²)	(47) Dwelling Units
3rd Floor Area:	2,943m ² (31,678ft ²)	(47) Dwelling Units
4th Floor Area:	1,982m ² (21,334ft ²)	(46) Dwelling Units
5th Floor Area:	1,982m ² (21,334ft ²)	(25) Dwelling Units
6th Floor Area:	1,982m ² (21,334ft ²)	(25) Dwelling Units
Gross Floor Area (GFA):	15,818m ² (170,263ft ²)	(198) Dwelling Units

Proposed Building Height: 20.85m measured from grade to top of parapet
Number of Storeys: (6) storeys above grade

Phase 2 Senior's Apartment Building Information

Proposed Apartment Building Details Group 'C' Apartment Building

Underground Parking Garage Area:	4,923m ² (52,991ft ²)	
Link between Phase 1 & 2 Buildings:	56m ² (603ft ²)	
Ground Floor Area / Footprint:	2,180m ² (23,465ft ²)	(21) Dwelling Units
2nd Floor Area:	2,180m ² (23,465ft ²)	(27) Dwelling Units
3rd Floor Area:	2,180m ² (23,465ft ²)	(27) Dwelling Units
4th Floor Area:	1,930m ² (20,774ft ²)	(26) Dwelling Units
5th Floor Area:	1,930m ² (20,774ft ²)	(26) Dwelling Units
6th Floor Area:	1,930m ² (20,774ft ²)	(26) Dwelling Units
7th Floor Area:	744m ² (8,008ft ²)	(9) Dwelling Units
8th Floor Area:	744m ² (8,008ft ²)	(9) Dwelling Units
9th Floor Area:	744m ² (8,008ft ²)	(9) Dwelling Units
Gross Floor Area (GFA):	19,541m ² (210,335ft ²)	(180) Dwelling Units

Proposed Building Height: 30.0m measured from grade to top of parapet
Number of Storeys: (9) storeys above grade

Phase 3 Apartment Building Information

Proposed Apartment Building Details Group 'C' Apartment Building

Underground Parking Garage Area:	1,910m ² (20,559ft ²)	
Ground Floor Area / Footprint:	1,084m ² (11,668ft ²)	(8) Dwelling Units
2nd Floor Area:	1,084m ² (11,668ft ²)	(13) Dwelling Units
3rd Floor Area:	1,084m ² (11,668ft ²)	(13) Dwelling Units
4th Floor Area:	968m ² (10,419ft ²)	(13) Dwelling Units
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6th Floor Area:	968m ² (10,419ft ²)	(13) Dwelling Units
7th Floor Area:	680m ² (7,319ft ²)	(9) Dwelling Units
8th Floor Area:	680m ² (7,319ft ²)	(9) Dwelling Units
9th Floor Area:	680m ² (7,319ft ²)	(9) Dwelling Units
Gross Floor Area (GFA):	10,106m ² (108,777ft ²)	(100) Dwelling Units

Proposed Building Height: 30.0m measured from grade to top of parapet
Number of Storeys: (9) storeys above grade

Parking Information

Phase 1 Retirement Home Building Parking	Zoning Requirement	Provided
Resident: 0.25 spaces per Unit = 198 units x 0.25 = 50 spaces	Table 101 - R20 - Column II	50 spaces (below grade indoor shared w/ Phase 2 requirements)
Staff: 1 space per 100m ² GFA used for medical, health or personal services = 500m ² GFA x 1 = 5 spaces	Table 101 - R20 - Column II	12 spaces (surface parking shared w/ Phase 2 requirements)
Phase 2 Senior's Apartment Building (Mid-High Rise) Parking	Zoning Requirement	Provided
Resident: 0.5 spaces per Unit = 180 units x 0.5 = 90 spaces	Table 101 - R12 - Column II	*115 spaces (below grade indoor shared w/ Phase 1 requirements)
* (0.75 spaces per unit provided = 180 units x 0.75 = 135 spaces)		* 20 spaces (surface parking shared w/ Phase 1 requirements)
Visitor: 0.1 spaces per Unit = 180 units x 0.1 = 18 spaces	Table 102 - Mid-High Rise - Column II	18 spaces (surface parking shared w/ Phase 1 requirements)
Phase 3 Apartment Building (Mid-High Rise) Parking	Zoning Requirement	Provided
Resident: 0.5 spaces per Unit = 100 units x 0.5 = 50 spaces	Table 101 - R12 - Column II	50 spaces (below grade indoor)
Visitor: 0.1 spaces per Unit = 100 units x 0.1 = 10 spaces	Table 102 - Mid-High Rise - Column II	10 spaces (below grade indoor)

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01	For Review	09-19-2025
02	For Review	10-06-2025

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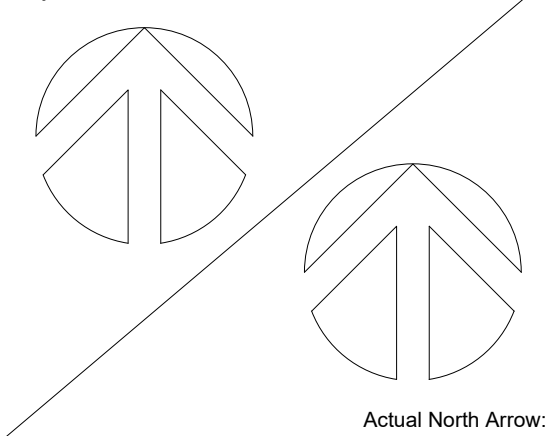
Symbol Legend:

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	- DENOTES PROPOSED SENIOR'S APARTMENT BUILDING
	- DENOTES PROPOSED APARTMENT BUILDING
	- DENOTES LANDSCAPE AREA
	- DENOTES CANOPY
	- DENOTES PROPERTY LINE
	- DENOTES SITE SETBACK
	- DENOTES PROPOSED SEVERANCE, PHASING AND/OR EASEMENT LINE
	- DENOTES C/L FIRE ACCESS ROUTE AND/OR DRIVE AISLE
	- DENOTES BUILDING ENTRANCE
	- DENOTES ACCESSIBLE PARKING SPACE
	- DENOTES HIGH COLOUR CONTRAST PAVEMENT MARKING

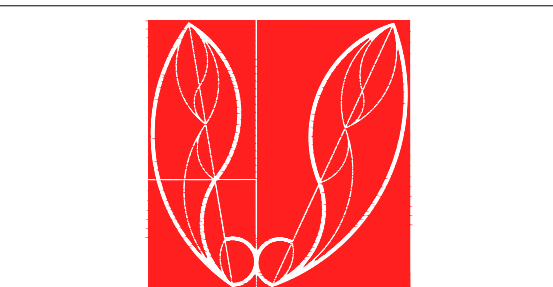
Key Plan:



Project North Arrow:



Architect:



Peter Mansfield, Architect
B. Tech., M. Arch., O.A.A.
122 Bridge Street, Almonte, ON
613-715-0431

Project Title:

Retirement Residence & Apartment Buildings
Block 21 - Wateridge Village
Ottawa ON

Drawing List:

Concept Site Plan

Job No.: 2508

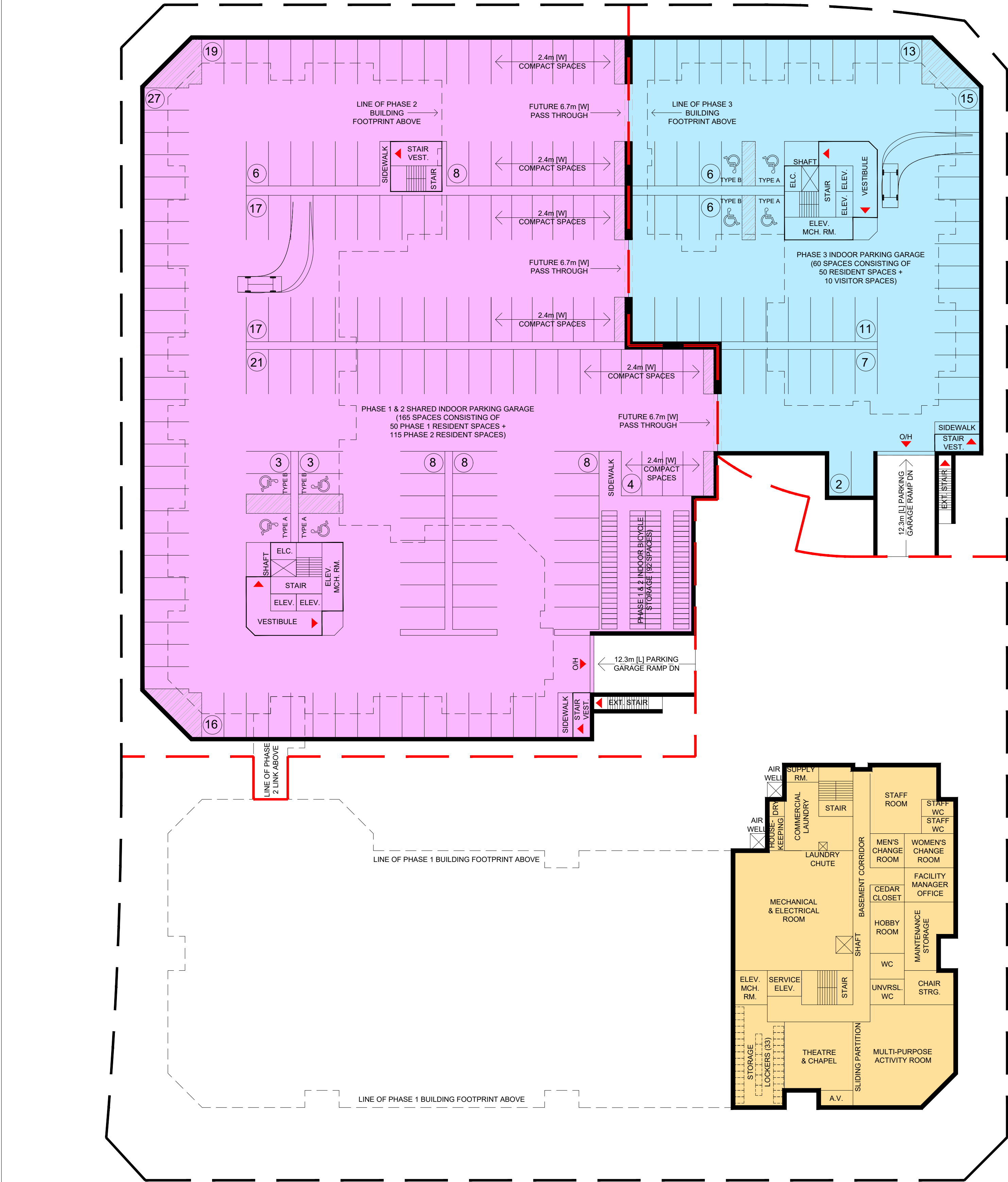
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Drawn By: TB

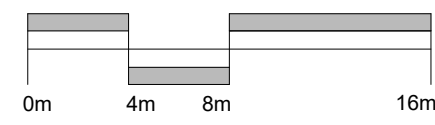
Reviewed By: PM

Drawing No.:

A1.0



1 Phase 1 - Basement Floor Plan / Phase 2 & 3 Underground Parking Garage Plan
A2.0 1:300



Site Information

Legal Description: Part of Lots 21, 22 and 23, Concession 1 (Ottawa Front), Geographic Township of Gloucester Registered Plan 4M-1651, City of Ottawa

Block 21 - Lot Area: 14,162m² (1.4162 hectares or 3.5 acres)

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Proposed Building Height:	20.85m measured from grade to top of parapet	
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Parking Information

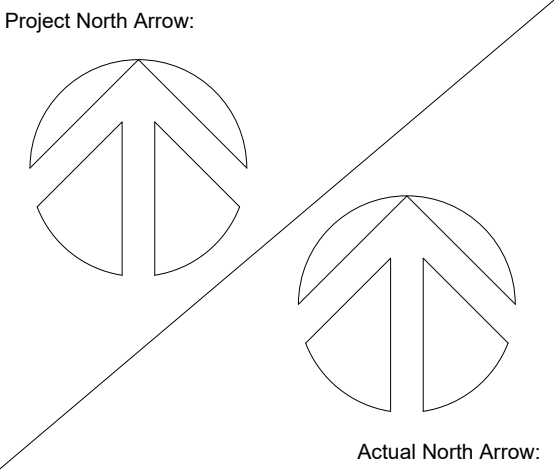
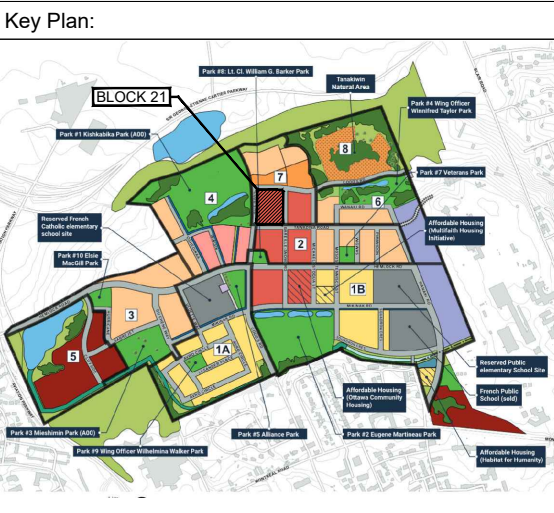
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- DENOTES ACCESSIBLE PARKING SPACE
- DENOTES HIGH COLOUR CONTRAST PAVEMENT MARKING



PETER MANSFIELD ARCHITECTS
PETER MANSFIELD
LICENCE 6450

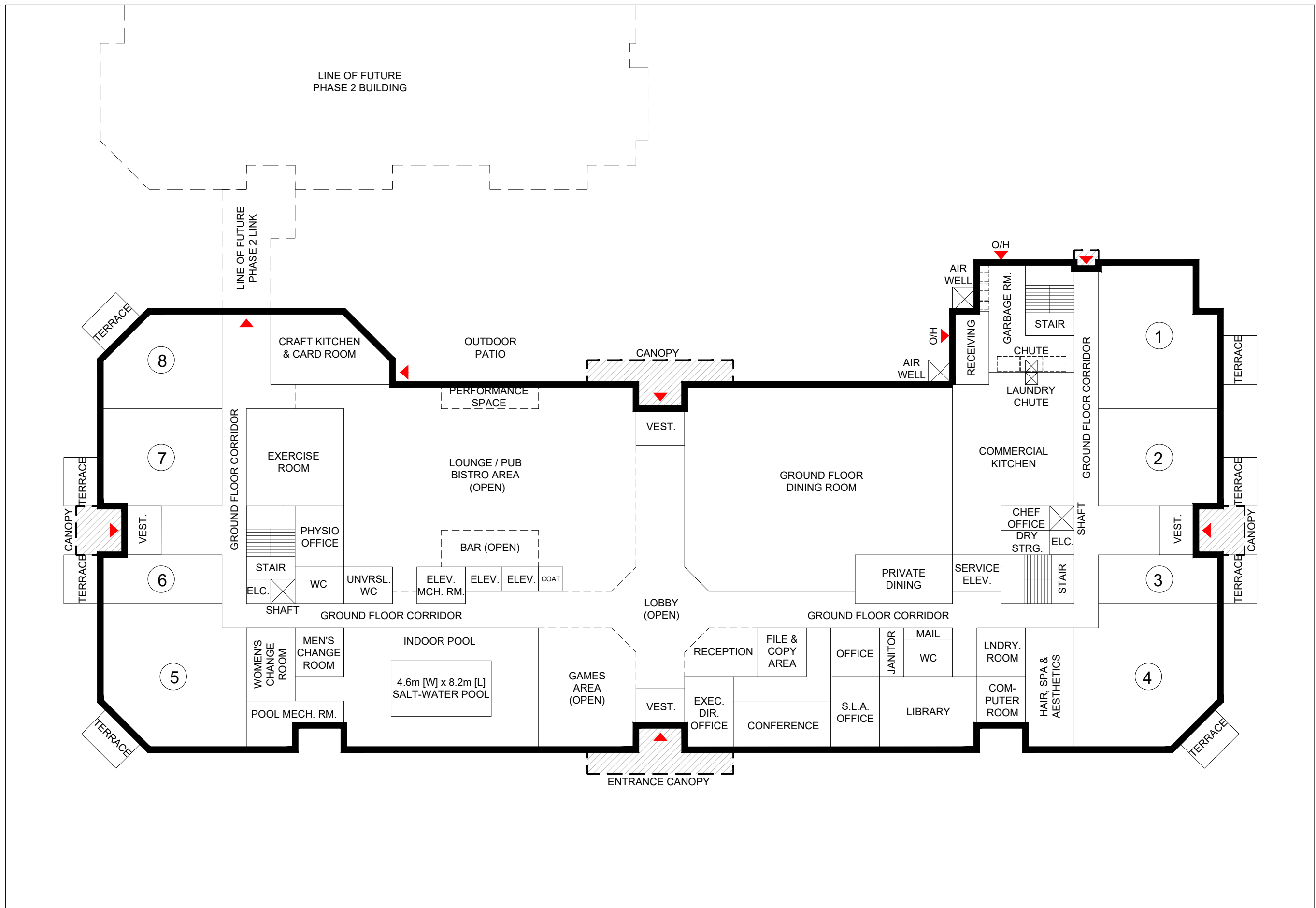
Architect:

Peter Mansfield, Architect
B. Tech., M. Arch., O.A.A.
122 Bridge Street, Almonte, ON
613-715-0431

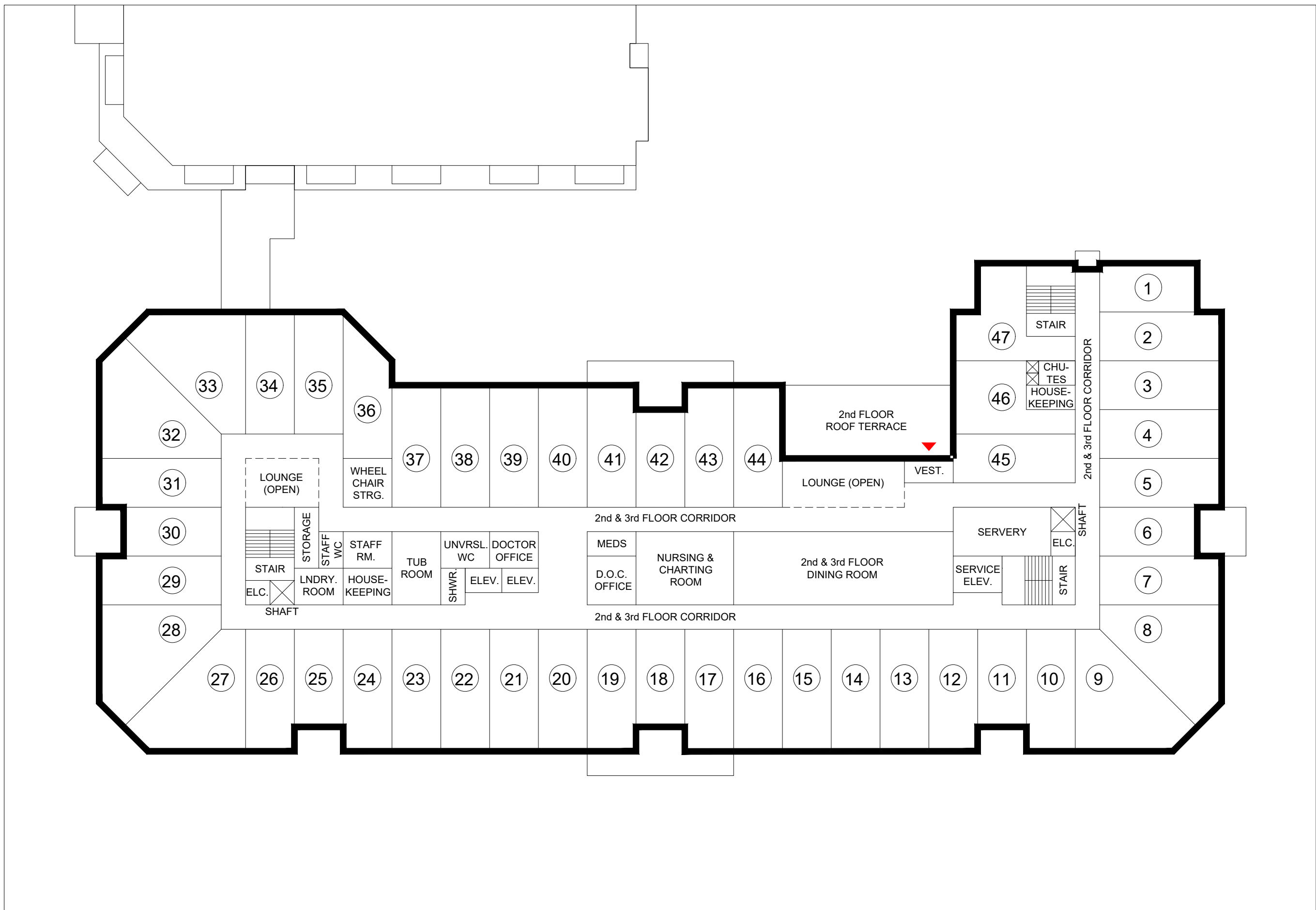
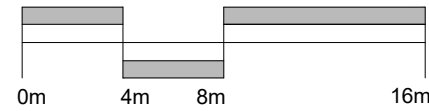
Project Title:
Retirement Residence & Apartment Buildings
Block 21 - Wateridge Village
Ottawa ON

Drawing List:
Concept Plan - Phase 1 Basement & Parking Garages

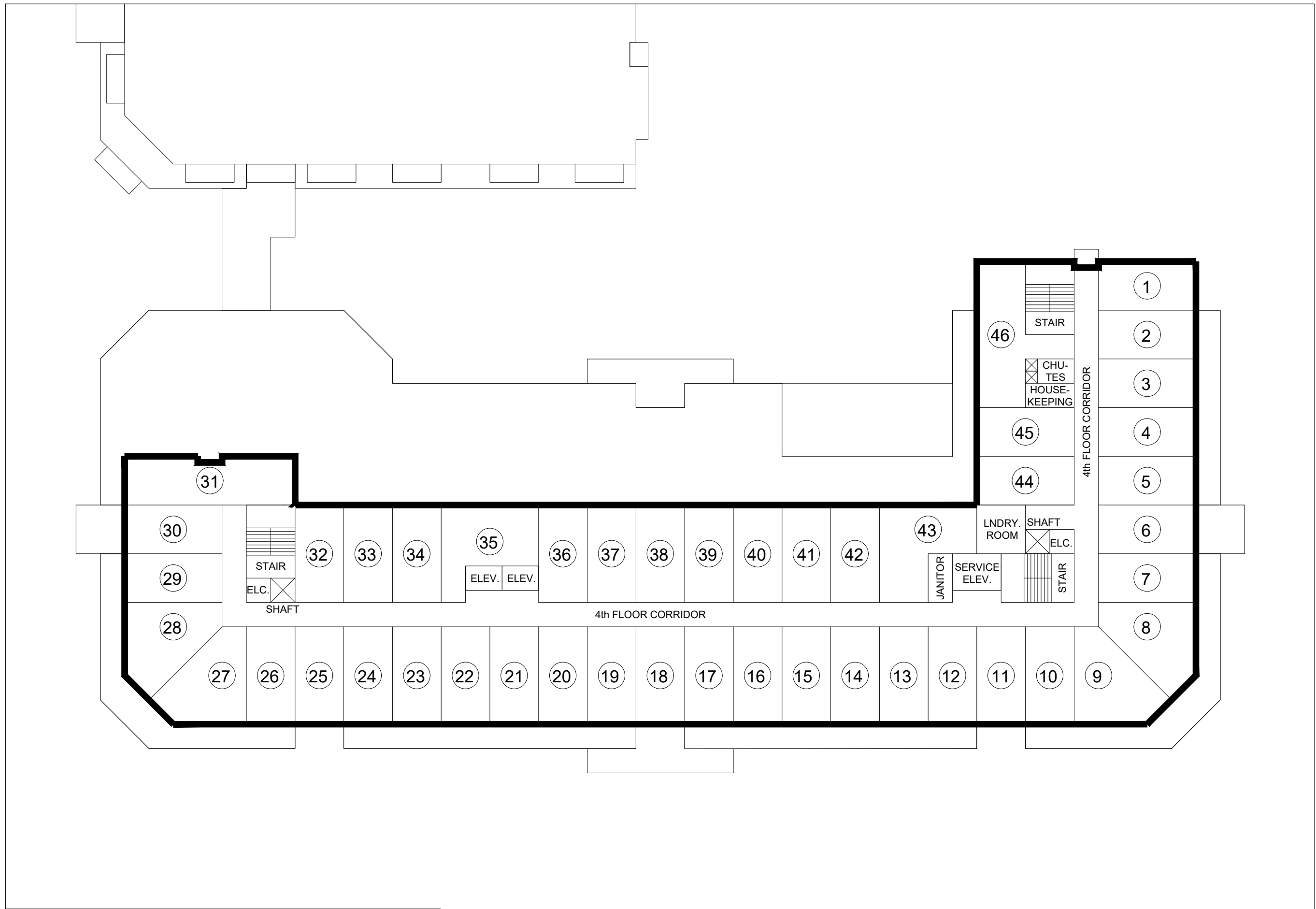
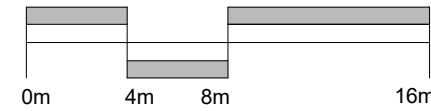
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Drawn By:	Reviewed By:	
TB	PM	



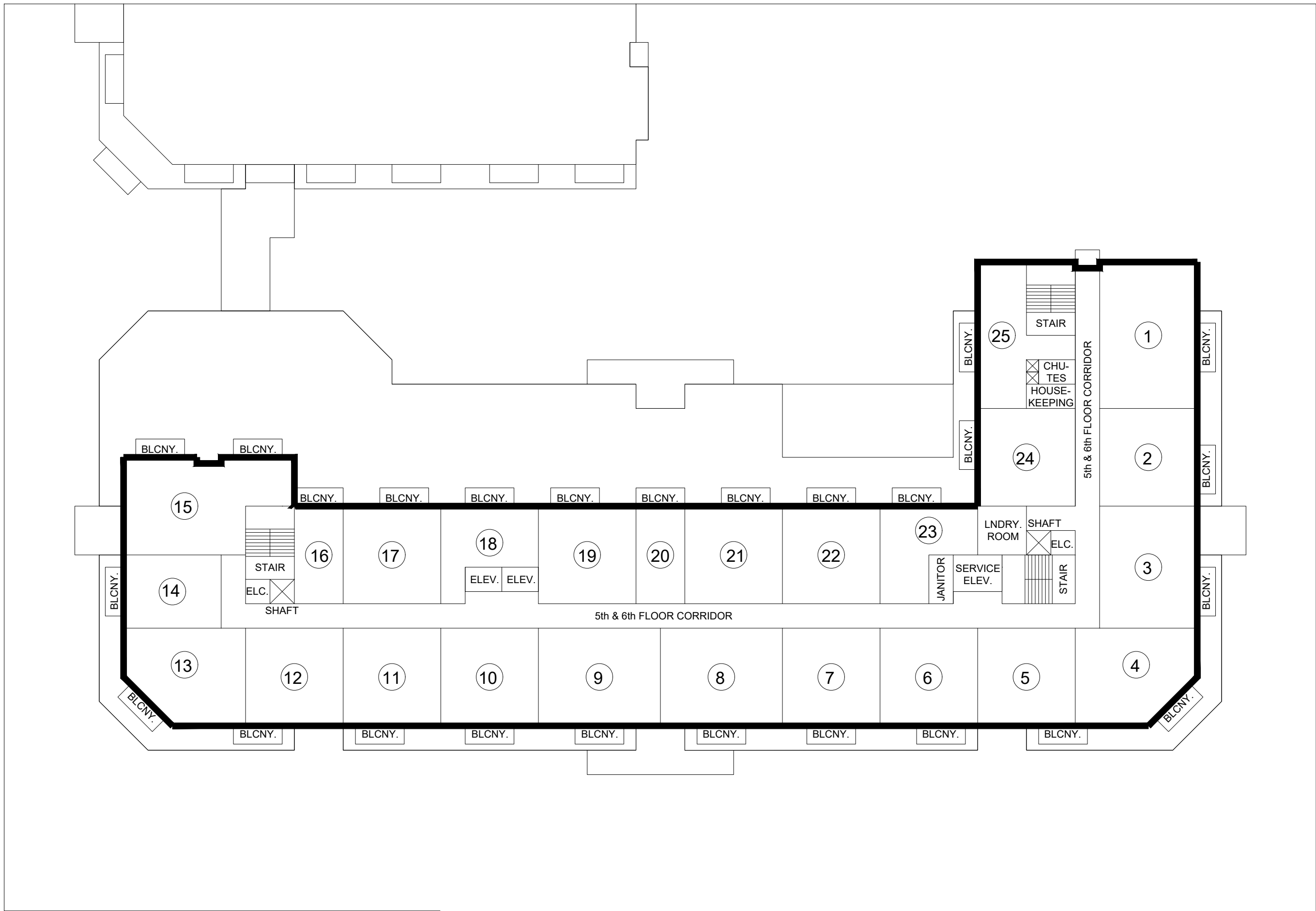
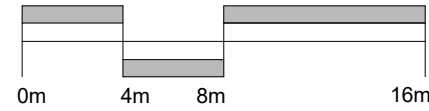
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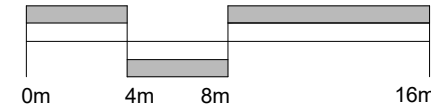
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Phase 1 - 2nd & 3rd Floor Plans
1:300



1
A2.1
Phase 1 - 4th Floor Plan
1:300



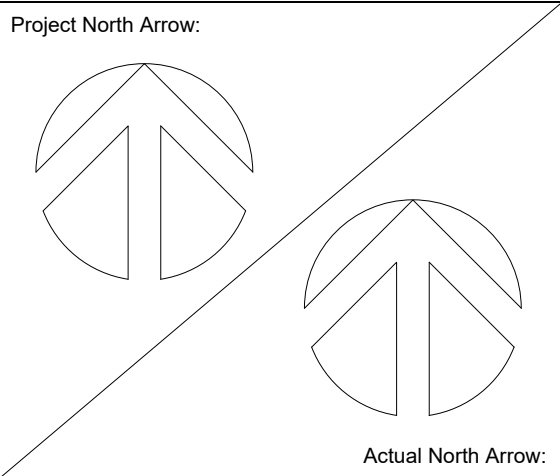
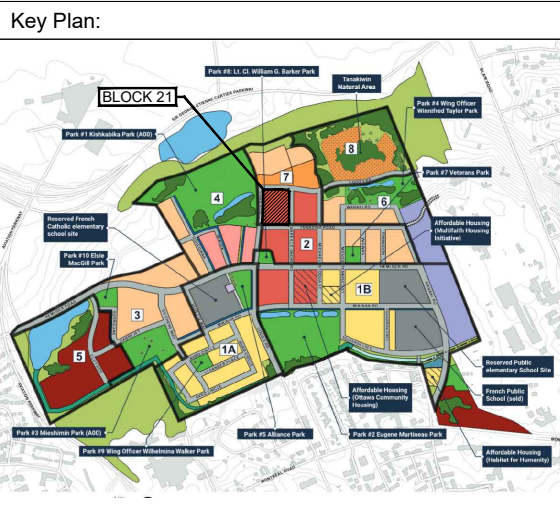
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Phase 1 - 5th & 6th Floor Plans
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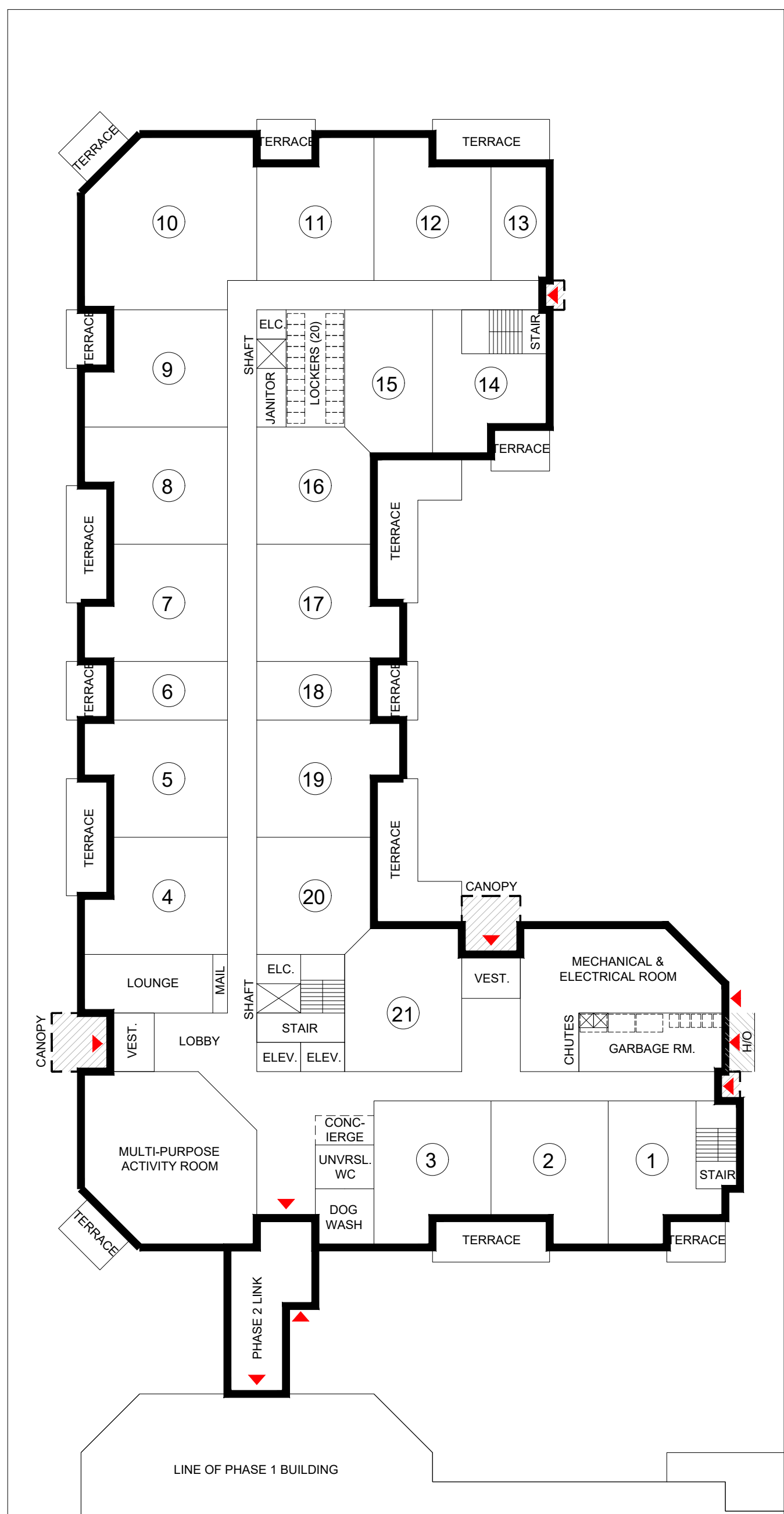


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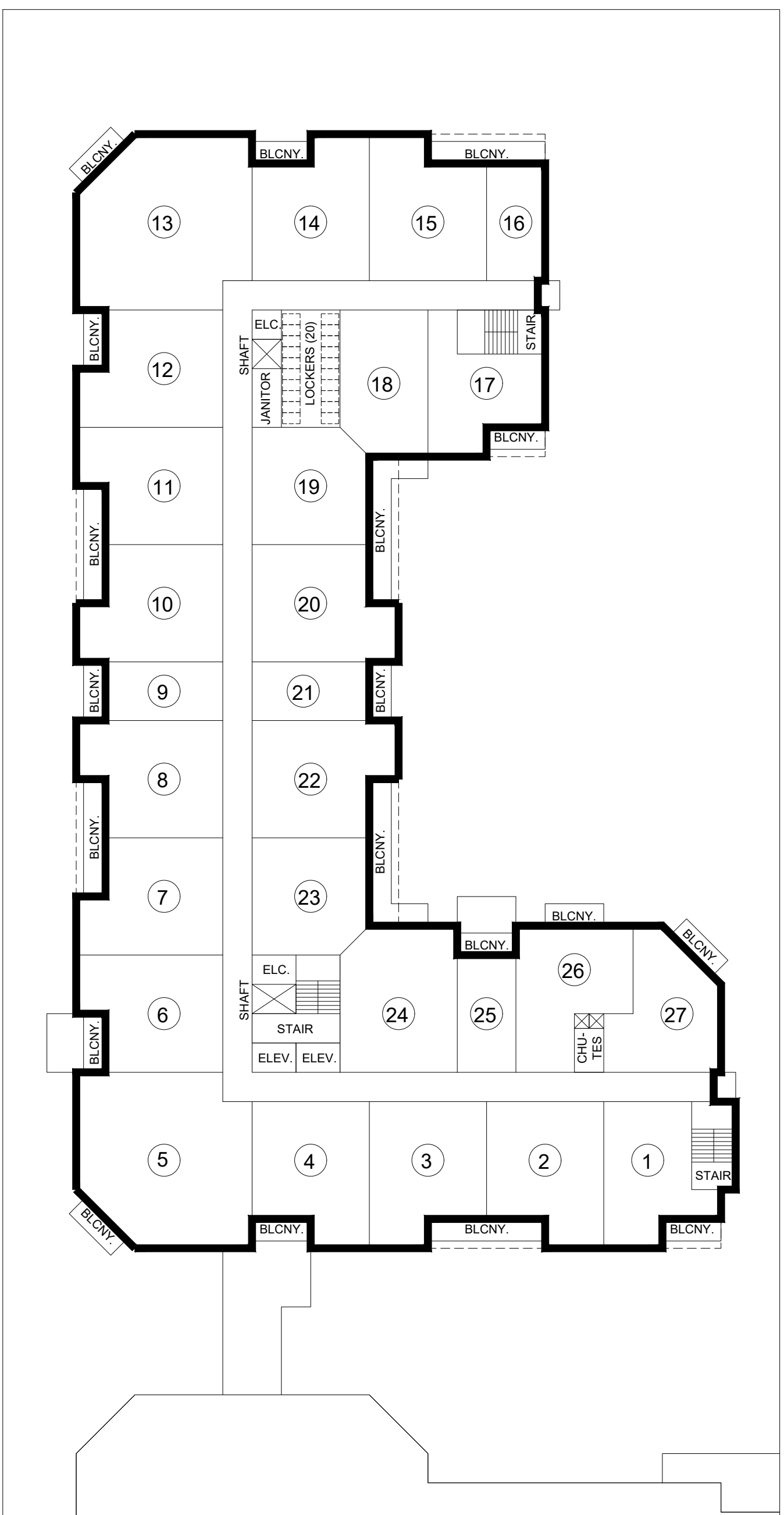


Architect:	
Peter Mansfield, Architect B. Tech., M. Arch., O.A.A. 122 Bridge Street, Almonte, ON 613-715-0431	
Project Title:	
Retirement Residence & Apartment Buildings Block 21 - Wateridge Village Ottawa ON	
Drawing List:	
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Job No.:	2506
Scale:	As Noted
Drawn By:	Reviewed By:
TB	PM

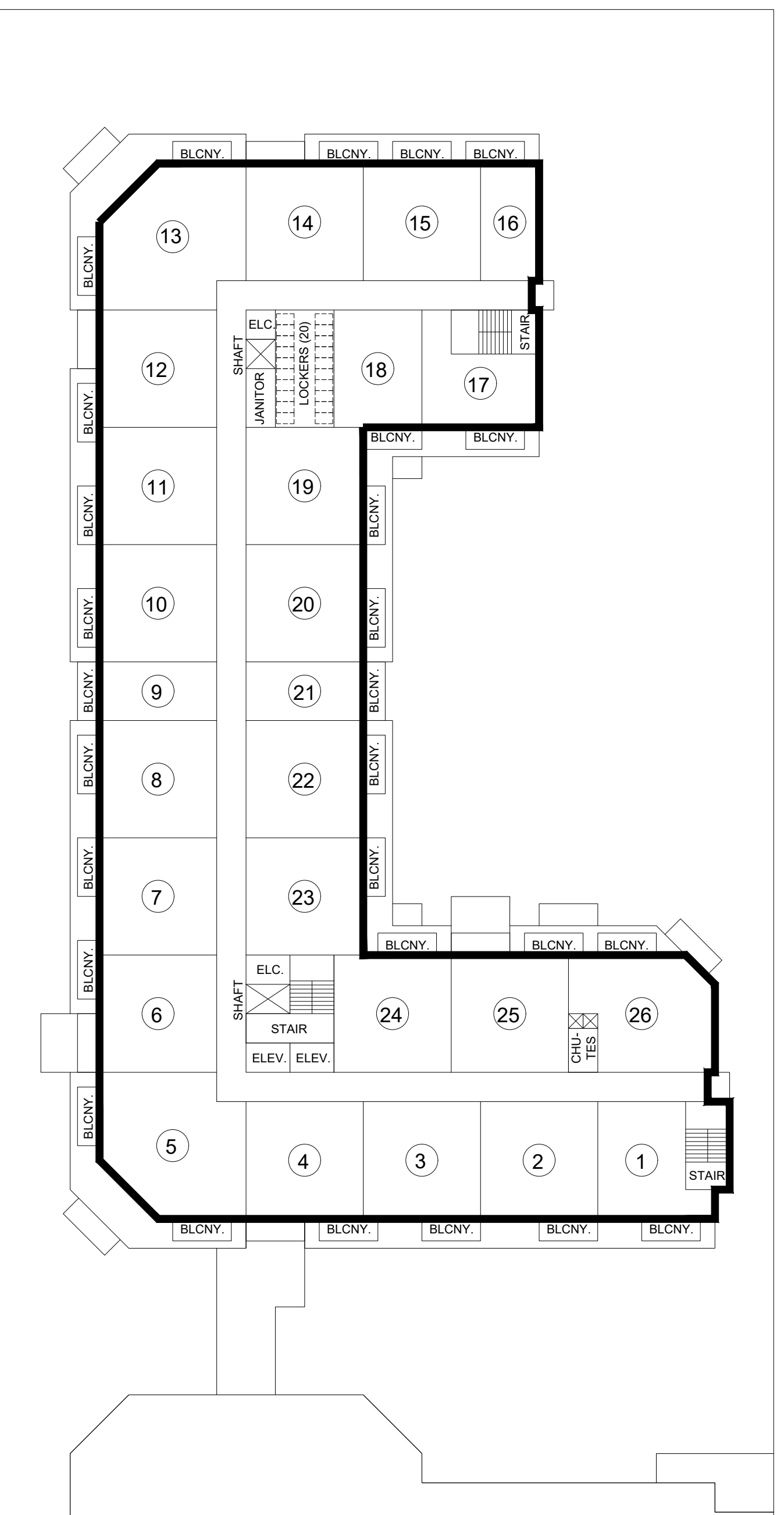
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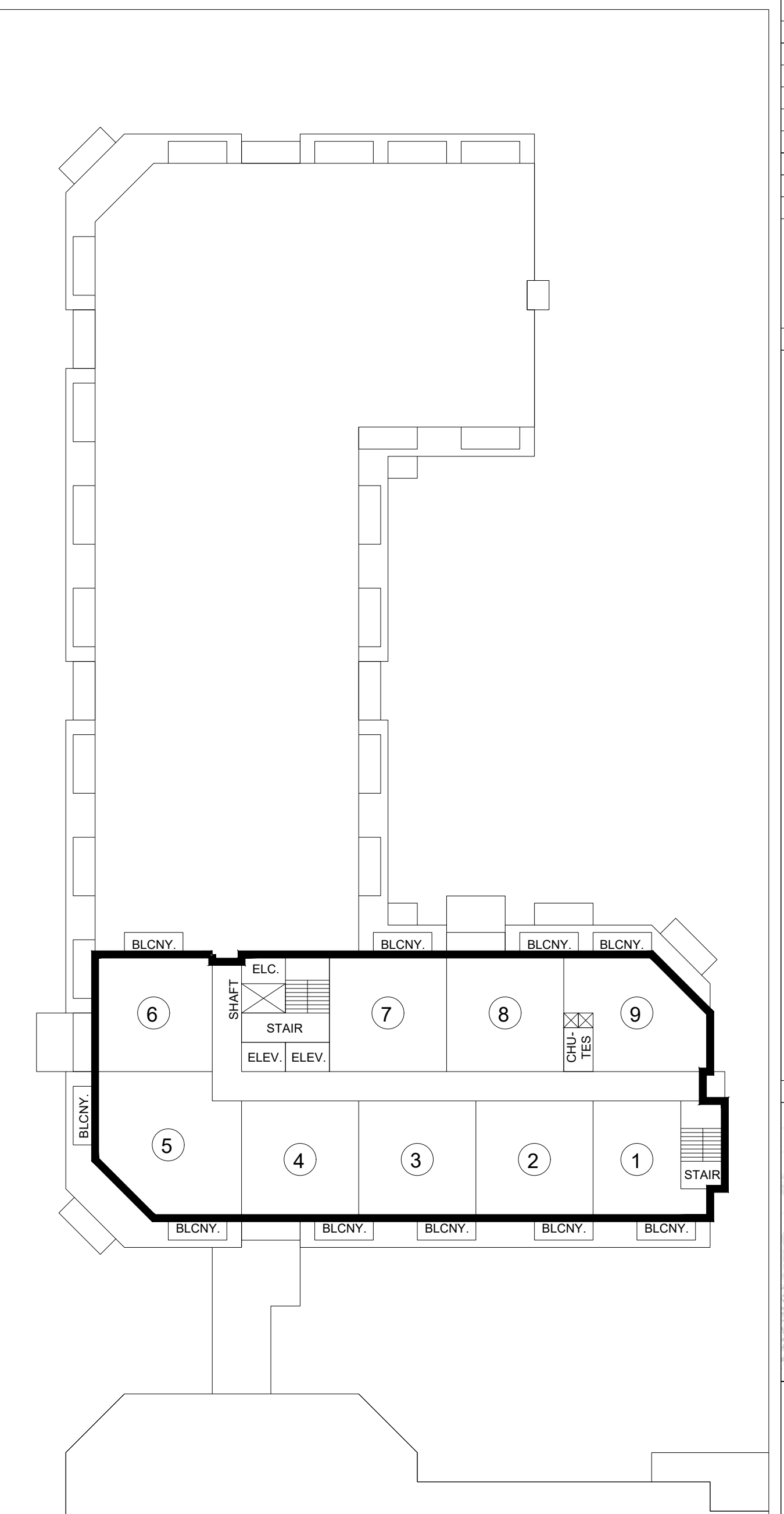
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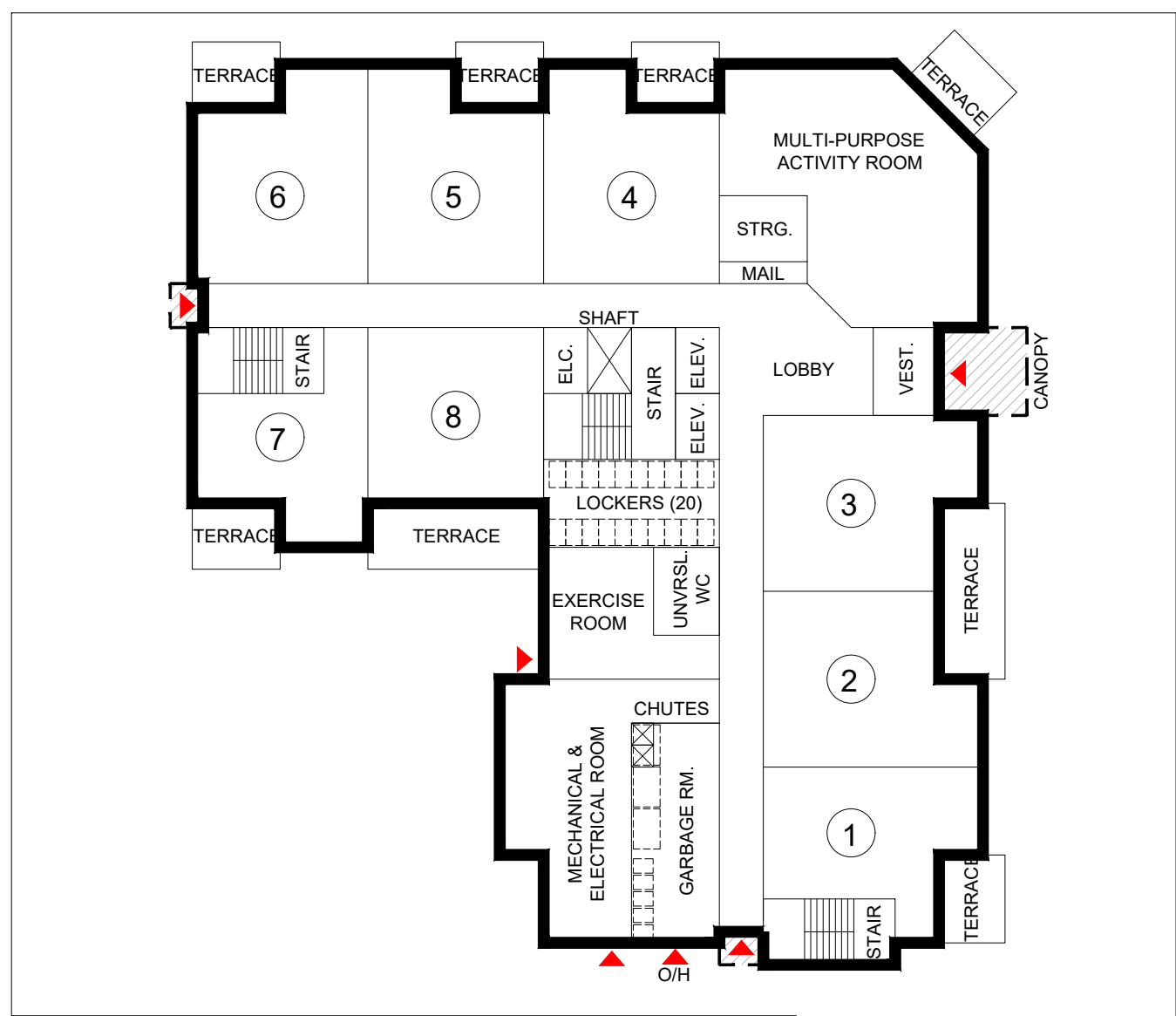
2 Phase 2 - 2nd & 3rd Floor Plans
A2.2 1:300



3 Phase 2 - 4th, 5th & 6th Floor Plans
A2.2 1:300



4 Phase 2 - 7th, 8th & 9th Floor Plans
A2.2 1:300



5 Phase 3 - Ground Floor Plan
A2.2 1:300



6 Phase 3 - 2nd & 3rd Floor Plans
A2.2 1:300



7 Phase 3 - 4th, 5th & 6th Floor Plans
A2.2 1:300

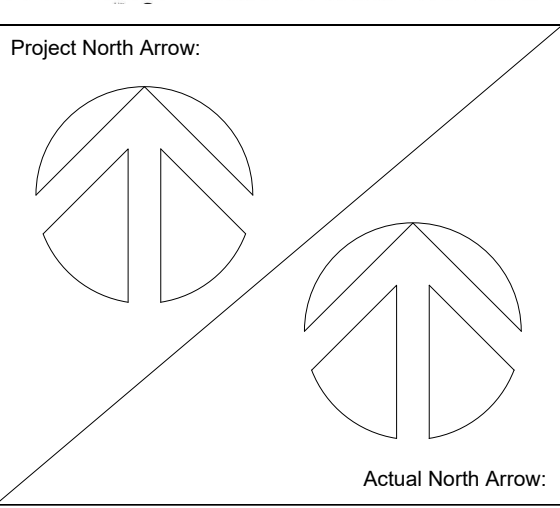
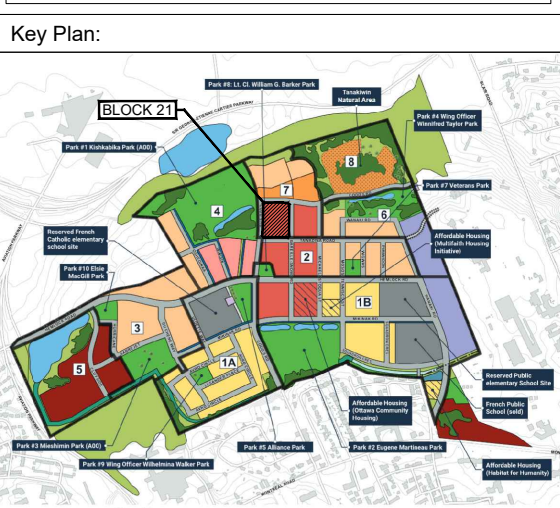


8 Phase 3 - 7th, 8th & 9th Floor Plans
A2.2 1:300

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Architect:

Peter Mansfield, Architect
B. Tech., M. Arch., O.A.A.
122 Bridge Street, Almonte, ON
613-715-0431

Project Title:
Retirement Residence & Apartment Buildings
Block 21 - Wateridge Village
Ottawa ON

Drawing List:
Concept Floor Plans - Phase 2 & Phase 3

Job No.:	2506	Drawing No.:	A2.2	
Scale:	As Noted			
Drawn By:	TB	Reviewed By:		PM



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

Appendix B

Borehole Logs

Date Completed: Dec. 9, 2025

Peterborough, Barrie, Oshawa, Kingston, Ottawa

Client: Corporation

Project Name: Wateridge Lifestyles Block 21

Log of Borehole: BH102-25

Method: Track Mounted Hollow Stem Auger

Page: 1 of 1

Ground Elevation: 88.71 mASL

Date Completed: Dec. 9, 2025

UTM: 18 T N: 5033746.77 E: 450542.85

Peterborough, Barrie, Oshawa, Kingston, Ottawa



Wateridge Lifestyles
Ltd. and Canada Lands
Corporation

Client: Wateridge Lifestyles
Contractor: Marathon Underground
Project No.: 24896-001
Location: 100 Bareille-Snow St,
Ottawa ON

Project Name: Wateridge Lifestyles Block 21

Method: Track Mounted Hollow Stem Auger

Ground Elevation: 88.64 mASL

UTM: 18 T **N:** 5033718.24 **E:** 450472.47

Log of Borehole: BH103-25

Page: 1 of 1

Date Completed: Dec. 9, 2025

SUBSURFACE PROFILE									
Elevation (m)	Depth	Lithology	Description	Elevation Depth	Core Run	UCS (MPa)			
						10	50	100	250
						Natural Fractures			
						Lab Notes			
						Log Notes			
85.9	2.7		Limestone: grey, moderate to strong, thinly to medium bedded, slightly decomposed, moderately fractured [Gull River Formation]	Run 1 TCR = 100% SCR = 75% RQD = 67%					2
85.4	3.2								3
									6
84.9	3.7			Run 2 TCR = 96% SCR = 75% RQD = 72%					2
84.4	4.2								1
									2
83.9	4.7								4
									1
83.4	5.2			Run 3 TCR = 98% SCR = 83% RQD = 76%					1
									1
82.9	5.7								1
82.4	6.2		Rock core terminated @ 6.1m ^{6.15} due to due to target depth achieved.						
81.9	6.7								
81.4	7.2								
80.9	7.7								
80.4	8.2								
79.9	8.7								
79.4	9.2								
78.9									

Logged By: RR

Input By: RR

Peterborough, Barrie, Oshawa, Kingston, Ottawa



Wateridge Lifestyles
Ltd. and Canada Lands
Corporation

Client: Wateridge Lifestyles
Contractor: Marathon Underground
Project No.: 24896-001
Location: 100 Bareille-Snow St.,
Ottawa ON

Project Name: Wateridge Lifestyles Block 21

Method: Track Mounted Hollow Stem Auger
Ground Elevation: 89.91 mASL
UTM: 18 T **N:** 5033670.21 **E:** 450542.03

Log of Borehole: BH104-25
Page: 1 of 1
Date Completed: Dec. 9, 2025

SUBSURFACE PROFILE									
Elevation (m)	Depth	Lithology	Description	Elevation Depth	Core Run	UCS (MPa)			
						10	50	100	250
						Natural Fractures			
						Lab Notes			
						Log Notes			
88.7	1.2		Limestone: grey, moderate to strong, thinly to medium bedded, slightly decomposed, moderately fractured [Gull River Formation]	Run 1 TCR = 100% SCR = 58% RQD = 58%					10
88.2	1.7								1
									4
87.7	2.2			Run 2 TCR = 92% SCR = 59% RQD = 30%					5
87.2	2.7								12
									23
86.7	3.2								5
									16
86.2	3.7			Run 3 TCR = 78% SCR = 29% RQD = 17%					6
									22
85.7	4.2		no water return, brown staining on fractures and joints						30
									10
85.2	4.7								7
84.7	5.2			Run 4 TCR = 98% SCR = 64% RQD = 59%					3
									3
84.2	5.7								2
83.7	6.2								0
83.2	6.7		Rock core terminated @ 6.1m due to due to target depth achieved.						
82.7	7.2								
82.2	7.7								
81.7									



Client: Wateridge Lifestyles
Ltd. and Canada Lands
Corporation

Contractor: Forage Downing Drilling

Project No.: 24896-001

Location: Block 21, 200 Codd's
Road, Ottawa ON

Project Name: Wateridge Lifestyles Block 21

Method: Track Mounted Hollow Stem Auger

Elevation: 96.56 mASL

UTM: 18T **N:** 5033652.00 **E:** 450468.00

Log of Borehole: MW101-26

Page: 1 of 1

Date Completed: March 20, 2026

SUBSURFACE PROFILE				SAMPLE															
Elevation (m)	Depth	Lithology	Description	Elevation Depth	Number	Type	% Recovery	SPT (N)	Atterberg Limits (%)			Shear Strength Cu, kPa				Well Installation	Log Notes		
									LL	PL	PI	25	50					75	20
									% Moisture			SPT (N)							
									25	50	75	20	40	60	80				
96.6	0		(SW) SAND and SILT: trace gravel; dark brown, with organics.		1	SS	58	19									Water level on April 2, 2026 - Dry		
96.1	0.5																		
				95.80															
			(SM) SILTY SAND: some clay, trace gravel; light brown to grey.	0.76															
95.6	1				2	SS	66	11											
95.1	1.5																		
					3	SS	58	14											
94.6	2																		
					4	SS	42	>50											
				94.07															
94.1	2.5	Borehole terminated @ 2.5 mbgs due to target depth achieved.		2.49															
93.6	3																		
93.1	3.5																		
92.6	4																		
GRAINSIZE DISTRIBUTION [SAMPLE] GRAVEL SAND SILT CLAY																			

Logged By: BR

Input By: MC

Peterborough, Barrie, Whitby, Kingston, Ottawa



Wateridge Lifestyles
Ltd. and Canada Lands
Corporation

Contractor: Forage Downing Drilling

Project No.: 24896-001

Location: Block 21, 200 Codd's
Road, Ottawa ON

Project Name: Wateridge Lifestyles Block 21

Method: Track Mounted Hollow Stem Auger

Elevation: 95.77 mASL

UTM: 18T **N:** 5033647.00 **E:** 450544.00

Log of Borehole: MW102-26

Page: 1 of 1

Date Completed: March 20, 2026

SUBSURFACE PROFILE				SAMPLE															
Elevation (m)	Depth	Lithology	Description	Elevation Depth	Number	Type	% Recovery	SPT (N)	Atterberg Limits (%)			Shear Strength Cu, kPa				Well Installation	Log Notes		
									LL	PL	PI	nat V. rem V.						nat V. rem V.	
									25	50	75	20	40	60	80				
									% Moisture			SPT (N)							
									25	50	75	20	40	60	80				
95.8	0		(SW) SAND and SILT: cobbles and rubble; dark brown.		1	SS	66	37								Cap	Water level on April 2, 2026 - Dry		
95.3	0.5																	Bentonite Plug	
																		Riser	
94.8	1		(SM) SILTY SAND: some clay, cobbles and boulders; light brown.		2	SS	25	>50											
94.3	1.5			94.25														Sand Pack	
				1.52														PVC Screen	
93.8	2		(SM) SILTY SAND: some clay, cobbles and boulders; light brown.		3	SS	63	>50											
93.3	2.5			93.28															
				2.49	4	SS	14	>50										Cap	
		Borehole terminated @ 2.5 mbgs due to target depth achieved.																	
92.8	3																		
92.3	3.5																		
91.8	4																		
GRAINSIZE DISTRIBUTION																			

Logged By: BR

Input By: MC

Peterborough, Barrie, Whitby, Kingston, Ottawa



Wateridge Lifestyles
Ltd. and Canada Lands
Corporation

Contractor: Forage Downing Drilling

Project No.: 24896-001

Location: Block 21, 200 Codd's
Road, Ottawa ON

Project Name: Wateridge Lifestyles Block 21

Method: Track Mounted Hollow Stem Auger

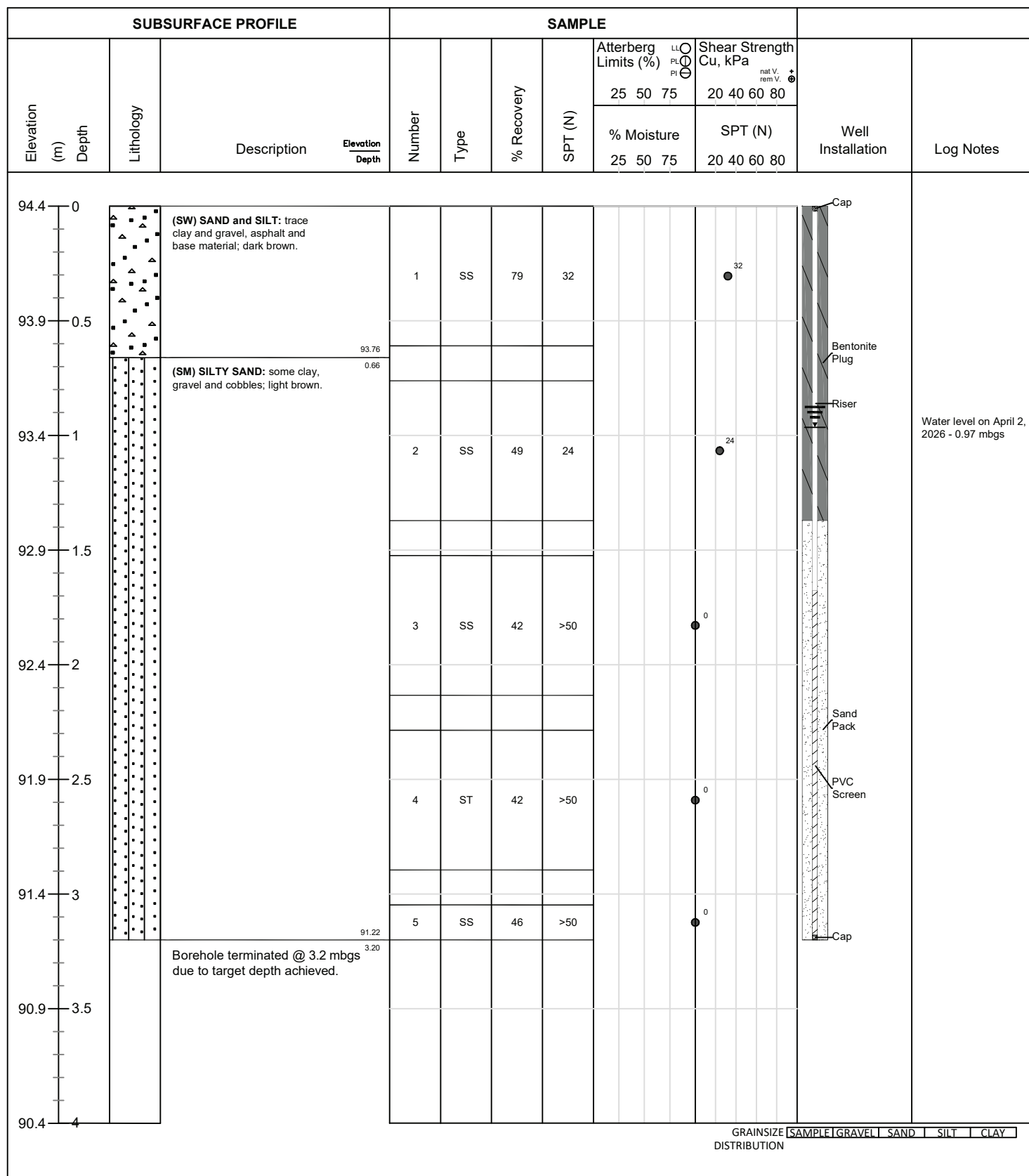
Elevation: 94.42 mASL

UTM: 18T **N:** 5033729.00 **E:** 450533.00

Log of Borehole: MW103-26

Page: 1 of 1

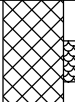
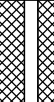
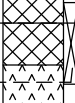
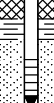
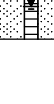
Date Completed: March 20, 2026



Logged By: BR

Input By: MC

Peterborough, Barrie, Whitby, Kingston, Ottawa

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Piezometer Construction		
		TYPE	NUMBER	RECOVERY	N VALUE or RQD			○ Water Content %						
								20	40	60	80			
GROUND SURFACE						0	87.85							
FILL: Crushed stone, some sand		AU	1											
FILL: Brown silty sand with crushed stone		SS	2	50	20	1	86.85							
GLACIAL TILL: Compact to dense, brown silty sand to sandy silt with gravel, cobbles and boulders		SS	3	89	50+									
End of Borehole														
Practical refusal to augering at 1.78m depth.														
(GWL @ 1.54m - Nov. 18, 2022)														

20406080100

Shear Strength (kPa)

▲ Undisturbed △ Remoulded

[illegible]

patersongroup Consulting Engineers

9 Auriga Drive, Ottawa, Ontario K2E 7T9

SOIL PROFILE AND TEST DATA

**Geotechnical Investigation
Wateridge Village Phases 6, 7 & 8
Ottawa, Ontario**

DATUM	Geodetic
-------	----------

REMARKS

BORINGS BY Track-Mount Power Auger

DATE October 26, 2022

FILE NO.
PG6331

HOLE NO.
BH 3-22

[illegible]

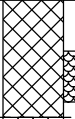
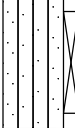
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[illegible]

[illegible]

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Piezometer Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Water Content %				
GROUND SURFACE								20	40	60	80	
FILL: Brown silty sand with crushed stone, gravel and rock fragments		AU	1			0	88.03					
		SS	2	50	17	1	87.03					
		SS	3	60	17							
End of Borehole Practical refusal to augering at 2.03m depth.	2.03					2	86.03					
20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded												

[illegible]

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	RECOVERY	N VALUE or RQD			○ Water Content %				
GROUND SURFACE								20	40	60	80	
FILL: Brown silty sand with crushed stone, trace organics		AU	1			0	89.02					
0.69												
Loose, brown SILTY SAND , some gravel		SS	2	33	5	1	88.02					
1.45												
GLACIAL TILL: Dense, dark brown silty sand with gravel, cobbles and boulders		SS	3	75	50+							
2.23						2	87.02					
End of Borehole												
Practical refusal to augering at 2.23m depth.												
(GWL @ 1.57m - April 20, 2023)												

20 40 60 80 100

Shear Strength (kPa)

▲ Undisturbed △ Remoulded

[illegible]

LOG OF BOREHOLE BH14-27

DST REF. No.: **OE-OT-015358**
 CLIENT: **Canada Lands Company**
 PROJECT: **Former CFB Rockcliffe**
 LOCATION: **Ottawa, Ontario**
 SURFACE ELEV.: **90.47 metres**

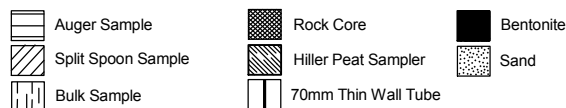
Drilling Data
 METHOD: **Hollow Stem Auger**
 DIAMETER: **80 mm ID**
 DATE: **March 3, 2014**
 COORDINATES: **5033695.61 m N, 450515.28 m E**

DEPTH (m)	ELEV. (m)	Water Data	% MOISTURE			Symbol	MATERIAL DESCRIPTION	SAMPLE #	SAMPLE TYPE	N' VALUE	VANE (kPa) ✕				REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL
			W _p	W	W _i						SPT (N) □		DCPT ◆		
			20	40	60						80	20	40	60	
90						TOPSOIL - with grass and roots	AS1								
1.0						SAND - Gravelly, some silt, occasional cobbles and boulders, loose	SS2			8					21 66 (12)
2.0						End of Borehole at 1.8 m Auger Refusal									
88															
3.0															
87															
4.0															
86															
5.0															
85															
6.0															
84															
7.0															
83															
8.0															
82															
9.0															
81															
10.0															
80															
11.0															
79															
12.0															
78															
13.0															
77															
14.0															
76															
15.0															
75															
16.0															
74															
17.0															
73															
18.0															
72															
19.0															
71															



DST Consulting Engineers Inc.
 203 - 2150 THURSTON DRIVE
 OTTAWA, ONTARIO, K1G 5T9
 PH: (613)748-1415
 FX: (613)748-1356
 Email: ottawa@dstgroup.com
 Web: www.dstgroup.com

SAMPLE TYPE LEGEND



ENCLOSURE 2



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

Appendix C

MECP Well Records

Water Well Records Summary Report

Produced by Cambium Inc. using MOECP Water Well Information System (WWIS)

*All units in meters unless otherwise specified*

Well ID: 1501107	Easting: 451206		UTM Zone: 18		
Construction Date: 6/17/1963	Northing: 5034458		Positional Accuracy: margin of error : 100 m - 300 m		
Well Depth: 46.3			Water Kind: FRESH	Pump Rate (LPM): 136	
Well Diameter (cm): 12.70			Final Status: Water Supply	Recommended Pump Rate: 23	
Water First Found: 46.3			Primary Water Use: Industrial	Pumping Duration (h:m): 1 : 0	
Static Level: 15.24					
Layer:		Driller's Description:	Top:	Bottom:	
1		CLAY	0.00	42.67	
2		SHALE	42.67	43.28	
3		LIMESTONE	43.28	46.33	

Well ID: 1508180	Easting: 450376	UTM Zone: 18		
Construction Date: 8/12/1955	Northing: 5032983	Positional Accuracy: unknown UTM		
Well Depth: 72.5	Water Kind: FRESH	Pump Rate (LPM): 32		
Well Diameter (cm): 12.70	Final Status: Water Supply	Recommended Pump Rate:		
Water First Found: 72.5	Primary Water Use: Domestic	Pumping Duration (h:m): 1 : 0		
Static Level: 13.72				
Layer:	Driller's Description:	Top:	Bottom:	
1	LIMESTONE	0.00	72.54	

Well ID: 1535672	Easting: 450732	UTM Zone: 18		
Construction Date: 7/25/2005	Northing: 5033501	Positional Accuracy: margin of error : 30 m - 100 m		
Well Depth: 3.7		Water Kind: FRESH	Pump Rate (LPM):	
Well Diameter (cm): 4.70		Final Status: Test Hole	Recommended Pump Rate:	
Water First Found: 3.2		Primary Water Use: Not Used	Pumping Duration (h:m): :	
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	
1	FILL	0.00	1.10	
2	CLAY	1.10	2.50	
3	SAND	2.50	3.70	

Well ID: 1536560	Easting: 450212	UTM Zone: 18		
Construction Date: 8/14/2006	Northing: 5033862	Positional Accuracy: margin of error : 10 - 30 m		
Well Depth: 3.4		Water Kind: FRESH	Pump Rate (LPM):	
Well Diameter (cm): 2.00		Final Status: Test Hole	Recommended Pump Rate:	
Water First Found: 3.0		Primary Water Use: Not Used	Pumping Duration (h:m):	
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	
1	CLAY	0.00	2.41	
2	CLAY	2.41	2.71	
3	LIMESTONE	2.71	3.42	

Well ID: 7169959	Easting: 450612	UTM Zone: 18
Construction Date: 10/12/2011	Northing: 5033452	Positional Accuracy: margin of error : 10 - 30 m
Well Depth: 9.1	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 5.20	Final Status: Test Hole	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	FILL	0.00 4.57
2	LIMESTONE	4.57 9.14

Well ID: 7174554	Easting: 450586	UTM Zone: 18
Construction Date: 1/6/2012	Northing: 5033427	Positional Accuracy: margin of error : 10 - 30 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 5.20	Final Status: Abandoned Mo	Recommended Pump Rate:
Water First Found: 1.6	Primary Water Use: Test Hole	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1		0.00 0.02
2	FILL	0.02 0.76
3	CLAY	0.76 4.11
4	SAND	4.11 4.57

Well ID: 7225394	Easting: 451232	UTM Zone: 18
Construction Date: 8/13/2014	Northing: 5033990	Positional Accuracy: margin of error : 100 m - 300 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Abandoned-Oth	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	TOPSOIL	0.00

Well ID: 7227808	Easting: 450333	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033300	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61
2	CLAY	0.61 1.50
3	CLAY	1.50 4.57

Well ID: 7227809	Easting: 450318	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033307	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61

2	CLAY	0.61	1.50
3	CLAY	1.50	4.57

Well ID: 7227810	Easting: 450337	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033304	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61
2	CLAY	0.61 1.50
3	CLAY	1.50 4.57

Well ID: 7227811	Easting: 450319	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033304	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61
2	FILL	0.61 3.22
3	CLAY	3.22 4.57

Well ID: 7227812	Easting: 450322	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033300	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61
2	FILL	0.61 3.66
3	CLAY	3.66 4.57

Well ID: 7227813	Easting: 450336	UTM Zone: 18
Construction Date: 9/22/2014	Northing: 5033300	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 4.6	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 4.03	Final Status: Monitoring and	Recommended Pump Rate:
Water First Found:	Primary Water Use: Monitoring and	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 0.61
2	FILL	0.61 3.22
3	CLAY	3.22 4.57

Well ID:	7227814	Easting:	450340	UTM Zone:	18
Construction Date:	9/22/2014	Northing:	5033300	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		4.6	Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		4.03	Final Status:	Monitoring and	Recommended Pump Rate:
Water First Found:			Primary Water Use:	Monitoring and	Pumping Duration (h:m):
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		
1	GRAVEL	0.00	0.61		
2	FILL	0.61	3.22		
3	SAND	3.22	4.57		
4	CLAY	4.57			

Well ID: 7277332	Easting: 450201	UTM Zone: 18
Construction Date: 12/19/2016	Northing: 5033617	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 12.2	Water Kind:	Pump Rate (LPM):
Well Diameter (cm): 27.31	Final Status: Observation We	Recommended Pump Rate:
Water First Found:	Primary Water Use: Other	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:
1	FILL	0.00 0.61
	FILL	
	FILL	
2	CLAY	0.61 1.83
	CLAY	
	CLAY	
3	LIMESTONE	1.83 2.44
	LIMESTONE	
	LIMESTONE	
4	LIMESTONE	2.44 4.57
	LIMESTONE	
	LIMESTONE	
5	LIMESTONE	4.57 12.19
	LIMESTONE	
	LIMESTONE	

Well ID: 7277333		Easting: 450254		UTM Zone: 18	
Construction Date: 12/19/2016		Northing: 5033571		Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth: 12.2		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm): 25.40		Final Status: Observation We		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m):	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		
1	GRAVEL	0.00	0.15		
	GRAVEL				
	GRAVEL				
2	CLAY	0.15	0.76		

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	2	CLAY	0.15	0.76
		CLAY		
	3	LIMESTONE	0.76	12.19
		LIMESTONE		
		LIMESTONE		

Well ID: 7277334

Construction Date: 12/19/2016

Easting: 450446

Northing: 5033702

UTM Zone: 18

Positional Accuracy: margin of error : 30 m - 100 m

Well Depth: 12.2

Well Diameter (cm): 25.40

Water First Found:

Static Level:

Water Kind:

Final Status: Observation We

Primary Water Use: Other

Pump Rate (LPM):

Recommended Pump Rate:

Pumping Duration (h:m):

Layer:	Driller's Description:	Top:	Bottom:
1	GRAVEL	0.00	1.52
	GRAVEL		
	GRAVEL		
2	CLAY	1.52	2.13
	CLAY		
	CLAY		
3	LIMESTONE	2.13	11.58
	LIMESTONE		
	LIMESTONE		
4	LIMESTONE	11.58	12.19
	LIMESTONE		
	LIMESTONE		

Well ID: 7289481

Construction Date: 7/5/2017

Easting: 450324

Northing: 5033283

UTM Zone: 18

Positional Accuracy: margin of error : 30 m - 100 m

Well Depth:

Well Diameter (cm):

Water First Found:

Static Level:

Water Kind:

Final Status:

Primary Water Use:

Pump Rate (LPM):

Recommended Pump Rate:

Pumping Duration (h:m):

Layer:	Driller's Description:	Top:	Bottom:
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Well ID: 7292671

Construction Date: 8/17/2017

Easting: 450630

Northing: 5033426

UTM Zone: 18

Positional Accuracy: margin of error : 300 m - 1 km

Well Depth: 5.0

Well Diameter (cm): 5.08

Water First Found:

Static Level:

Water Kind:

Final Status: Replacement W

Primary Water Use: Monitoring

Pump Rate (LPM):

Recommended Pump Rate:

Pumping Duration (h:m):

Layer:	Driller's Description:	Top:	Bottom:
1	CLAY	0.00	0.91
2	GRAVEL	0.91	4.97

Well ID: 7334282**Easting:** 450217**UTM Zone:** 18**Construction Date:** 6/4/2019 **Northing:** 5033607**Positional Accuracy:** margin of error : 30 m - 100 m**Well Depth:****Water Kind:****Pump Rate (LPM):****Well Diameter (cm):****Final Status:****Recommended Pump Rate:****Water First Found:****Primary Water Use:****Pumping Duration (h:m):****Static Level:****Layer:****Driller's Description:****Top:****Bottom:****Well ID:** 7348316**Easting:** 450630**UTM Zone:** 18**Construction Date:** 11/27/2019 **Northing:** 5033437**Positional Accuracy:** margin of error : 30 m - 100 m**Well Depth:** 13.0**Water Kind:****Pump Rate (LPM):****Well Diameter (cm):** 2.00**Final Status:** Monitoring and**Recommended Pump Rate:****Water First Found:****Primary Water Use:** Monitoring and**Pumping Duration (h:m):** :**Static Level:****Layer:****Driller's Description:****Top:****Bottom:**

1	FILL	0.00	2.00
2	CLAY	2.00	5.00
3	CLAY	5.00	13.00

Well ID: 7348317**Easting:** 450620**UTM Zone:** 18**Construction Date:** 11/27/2019 **Northing:** 5033431**Positional Accuracy:** margin of error : 30 m - 100 m**Well Depth:** 14.0**Water Kind:****Pump Rate (LPM):****Well Diameter (cm):** 2.00**Final Status:** Monitoring and**Recommended Pump Rate:****Water First Found:****Primary Water Use:** Monitoring and**Pumping Duration (h:m):** :**Static Level:****Layer:****Driller's Description:****Top:****Bottom:**

1	FILL	0.00	5.00
2	CLAY	5.00	8.00
3	CLAY	8.00	14.00

Well ID: 7350774**Easting:** 450844**UTM Zone:** 18**Construction Date:** 1/6/2020 **Northing:** 5033288**Positional Accuracy:** margin of error : 30 m - 100 m**Well Depth:** 4.0**Water Kind:****Pump Rate (LPM):****Well Diameter (cm):** 5.20**Final Status:** Monitoring and**Recommended Pump Rate:****Water First Found:****Primary Water Use:** Monitoring and**Pumping Duration (h:m):** :**Static Level:****Layer:****Driller's Description:****Top:****Bottom:**

1	GRAVEL	0.00	0.61
2	SAND	0.61	3.10
3	SAND	3.10	3.96

Well ID: 7350775**Easting:** 450849**UTM Zone:** 18**Construction Date:** 1/6/2020 **Northing:** 5033300**Positional Accuracy:** margin of error : 30 m - 100 m**Well Depth:** 12.0**Water Kind:****Pump Rate (LPM):****Well Diameter (cm):** 2.00**Final Status:** Observation We**Recommended Pump Rate:****Water First Found:****Primary Water Use:** Monitoring**Pumping Duration (h:m):** :**Static Level:****Layer:****Driller's Description:****Top:****Bottom:**

1	GRAVEL	0.00	2.00
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Well ID: 7350776		Easting: 450863		UTM Zone: 18	
Construction Date: 1/6/2020		Northing: 5033301		Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth: 2.7		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm): 5.20		Final Status: Monitoring and		Recommended Pump Rate:	
Water First Found:		Primary Water Use: Monitoring and		Pumping Duration (h:m): :	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		
1	SAND	0.00	2.73		
2	SAND	2.73	2.74		

Well ID: 7350811		Easting: 450527		UTM Zone: 18	
Construction Date: 1/6/2020		Northing: 5033195		Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm): 5.08		Final Status: Abandoned-Oth		Recommended Pump Rate:	
Water First Found:		Primary Water Use: Test Hole		Pumping Duration (h:m):	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID: 7353633		Easting: 450454		UTM Zone: 18	
Construction Date: 2/18/2020		Northing: 5033631		Positional Accuracy: margin of error : 100 m - 300 m	
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):		Final Status: Abandoned-Oth		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m): :	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID: 7365245		Easting: 450606		UTM Zone: 18	
Construction Date: 8/14/2020		Northing: 5033378		Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth		Recommended Pump Rate:	
Water First Found:		Primary Water Use: Monitoring and		Pumping Duration (h:m): :	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID: 7365246		Easting: 450638		UTM Zone: 18	
Construction Date: 8/14/2020		Northing: 5033377		Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m): :	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID: 7365247	Easting: 450638	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033377	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use:
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365248	Easting: 450613	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033349	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365249	Easting: 450608	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033349	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365250	Easting: 450604	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033352	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm):		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365251	Easting: 450614	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033353	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365252	Easting: 450614	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033358	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7365253	Easting: 450619	UTM Zone: 18
Construction Date: 8/14/2020	Northing: 5033357	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm): 5.20		Final Status: Abandoned-Oth
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7374310	Easting: 450733	UTM Zone: 18
Construction Date: 12/4/2020	Northing: 5033777	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm):		Final Status:
Water First Found:		Primary Water Use:
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m):
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7374886	Easting: 450136	UTM Zone: 18
Construction Date: 12/11/2020	Northing: 5033223	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 7.6		Water Kind:
Well Diameter (cm): 4.09		Final Status: Monitoring and
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:
1	GRAVEL	0.00 5.18
2	CLAY	5.18 7.62

Well ID: 7374887	Easting: 450134	UTM Zone: 18
Construction Date: 12/11/2020	Northing: 5033235	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth: 7.6		Water Kind:
Well Diameter (cm): 2.82		Final Status: Monitoring and
Water First Found:		Primary Water Use: Monitoring and
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m): :
Layer:	Driller's Description:	Top: Bottom:
1	OTHER	0.00 0.15
2	GRAVEL	0.15 0.61
3	CLAY	0.61 4.57
4	CLAY	4.57 7.62

Well ID: 7389949	Easting: 450733	UTM Zone: 18
Construction Date: 6/17/2021	Northing: 5033777	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:		Water Kind:
Well Diameter (cm):		Final Status:
Water First Found:		Primary Water Use:
Static Level:		Pump Rate (LPM):
		Recommended Pump Rate:
		Pumping Duration (h:m):
Layer:	Driller's Description:	Top: Bottom:

Well ID:	7409729	Easting:	450845	UTM Zone:	18
Construction Date:	2/4/2022	Northing:	5033718	Positional Accuracy:	margin of error : 30 m - 100 m
Well Depth:	5.1	Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):	3.81	Final Status:	Observation We	Recommended Pump Rate:	
Water First Found:		Primary Water Use:	Monitoring and	Pumping Duration (h:m):	:
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		
1	SAND	0.00	2.01		
2	LIMESTONE	2.01	5.06		

Well ID:	7409730	Easting:	450208	UTM Zone:	18
Construction Date:	2/4/2022	Northing:	5033614	Positional Accuracy:	margin of error : 30 m - 100 m
Well Depth:	5.2	Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):	3.81	Final Status:	Observation We	Recommended Pump Rate:	
Water First Found:		Primary Water Use:	Monitoring	Pumping Duration (h:m):	:
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		
1	GRAVEL	0.00	0.61		
2	GRAVEL	0.61	3.05		
3	LIMESTONE	3.05	5.18		

Well ID:	7418461	Easting:	450540	UTM Zone:	18
Construction Date:	5/19/2022	Northing:	5033133	Positional Accuracy:	margin of error : 30 m - 100 m
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):		Final Status:		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m):	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID:	7425937	Easting:	450197	UTM Zone:	18
Construction Date:	8/17/2022	Northing:	5033621	Positional Accuracy:	margin of error : 30 m - 100 m
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):		Final Status:		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m):	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID:	7425989	Easting:	450253	UTM Zone:	18
Construction Date:	8/17/2022	Northing:	5033572	Positional Accuracy:	margin of error : 30 m - 100 m
Well Depth:		Water Kind:		Pump Rate (LPM):	
Well Diameter (cm):		Final Status:		Recommended Pump Rate:	
Water First Found:		Primary Water Use:		Pumping Duration (h:m):	
Static Level:					
Layer:	Driller's Description:	Top:	Bottom:		

Well ID: 7432411	Easting: 450254	UTM Zone: 18
Construction Date: 10/24/2022	Northing: 5033578	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7432412	Easting: 450254	UTM Zone: 18
Construction Date: 10/24/2022	Northing: 5033572	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7432413	Easting: 450164	UTM Zone: 18
Construction Date: 10/24/2022	Northing: 5033606	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7432547	Easting: 450185	UTM Zone: 18
Construction Date: 10/24/2022	Northing: 5033612	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7435111	Easting: 450261	UTM Zone: 18
Construction Date: 11/25/2022	Northing: 5033580	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7448298	Easting: 450249	UTM Zone: 18
Construction Date: 5/12/2023	Northing: 5033401	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7448877		Easting: 450509	UTM Zone: 18	
Construction Date: 5/31/2023		Northing: 5033769	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7451837		Easting: 450259	UTM Zone: 18	
Construction Date: 6/19/2023		Northing: 5033414	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status: Abandoned-Oth		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7460820		Easting: 451034	UTM Zone: 18	
Construction Date: 9/27/2023		Northing: 5033453	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7460821		Easting: 450926	UTM Zone: 18	
Construction Date: 9/27/2023		Northing: 5033438	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7460822		Easting: 451095	UTM Zone: 18	
Construction Date: 9/27/2023		Northing: 5033364	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7467582	Easting: 450262	UTM Zone: 18
Construction Date: 12/29/2023	Northing: 5033515	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7479614	Easting: 450584	UTM Zone: 18
Construction Date: 6/17/2024	Northing: 5033576	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7481993	Easting: 450251	UTM Zone: 18
Construction Date: 7/9/2024	Northing: 5033630	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7485465	Easting: 450186	UTM Zone: 18
Construction Date: 9/3/2024	Northing: 5033673	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7485466	Easting: 450207	UTM Zone: 18
Construction Date: 9/3/2024	Northing: 5033707	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7485467	Easting: 450182	UTM Zone: 18
Construction Date: 9/3/2024	Northing: 5033759	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

Well ID: 7485468		Easting: 450230	UTM Zone: 18	
Construction Date: 9/3/2024		Northing: 5033778	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7485469		Easting: 450265	UTM Zone: 18	
Construction Date: 9/3/2024		Northing: 5033738	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7485470		Easting: 450267	UTM Zone: 18	
Construction Date: 9/3/2024		Northing: 5033700	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7485471		Easting: 450283	UTM Zone: 18	
Construction Date: 9/3/2024		Northing: 5033788	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7485472		Easting: 450303	UTM Zone: 18	
Construction Date: 9/3/2024		Northing: 5033721	Positional Accuracy: margin of error : 30 m - 100 m	
Well Depth:		Water Kind:		Pump Rate (LPM):
Well Diameter (cm):		Final Status:		Recommended Pump Rate:
Water First Found:		Primary Water Use:		Pumping Duration (h:m):
Static Level:				
Layer:	Driller's Description:	Top:	Bottom:	

Well ID: 7485481	Easting: 450224	UTM Zone: 18
Construction Date: 9/3/2024	Northing: 5033694	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:

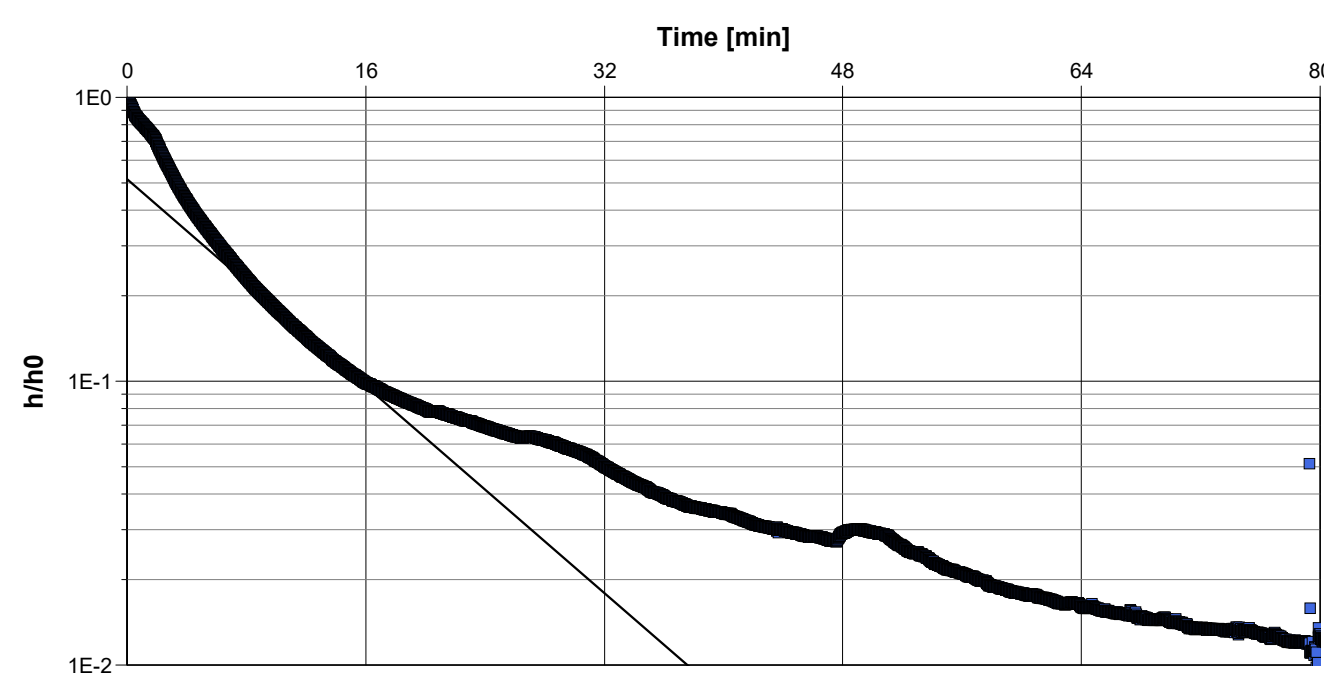
Well ID: 7485482	Easting: 450345	UTM Zone: 18
Construction Date: 9/3/2024	Northing: 5033785	Positional Accuracy: margin of error : 30 m - 100 m
Well Depth:	Water Kind:	Pump Rate (LPM):
Well Diameter (cm):	Final Status:	Recommended Pump Rate:
Water First Found:	Primary Water Use:	Pumping Duration (h:m):
Static Level:		
Layer:	Driller's Description:	Top: Bottom:



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

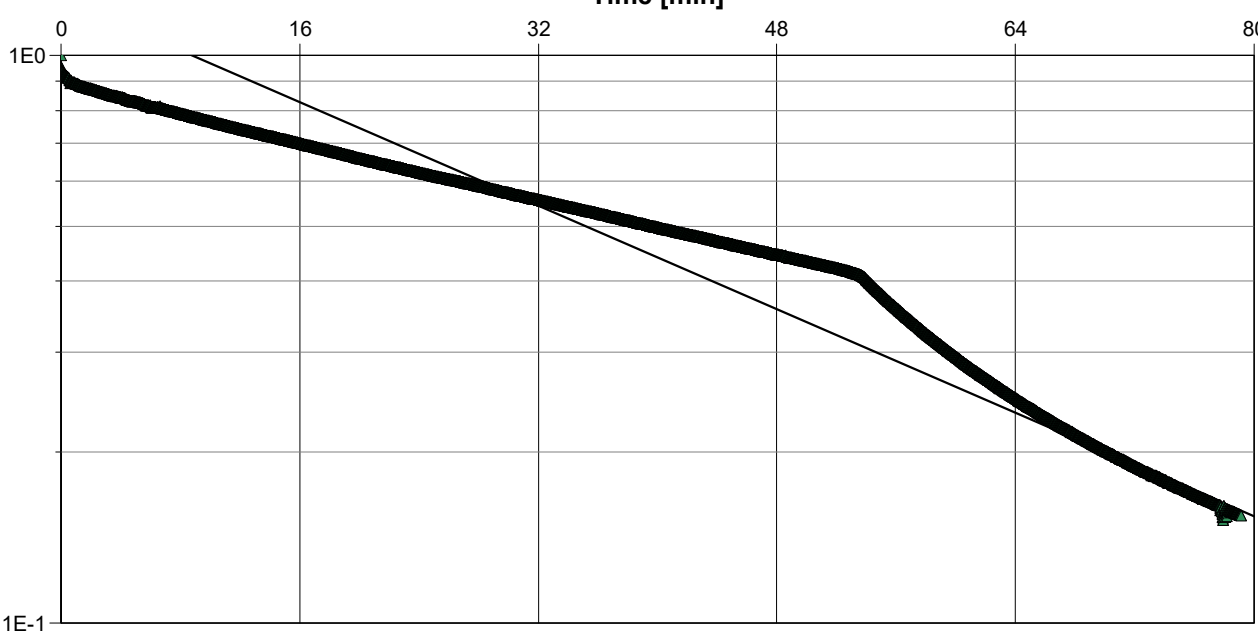
Appendix D

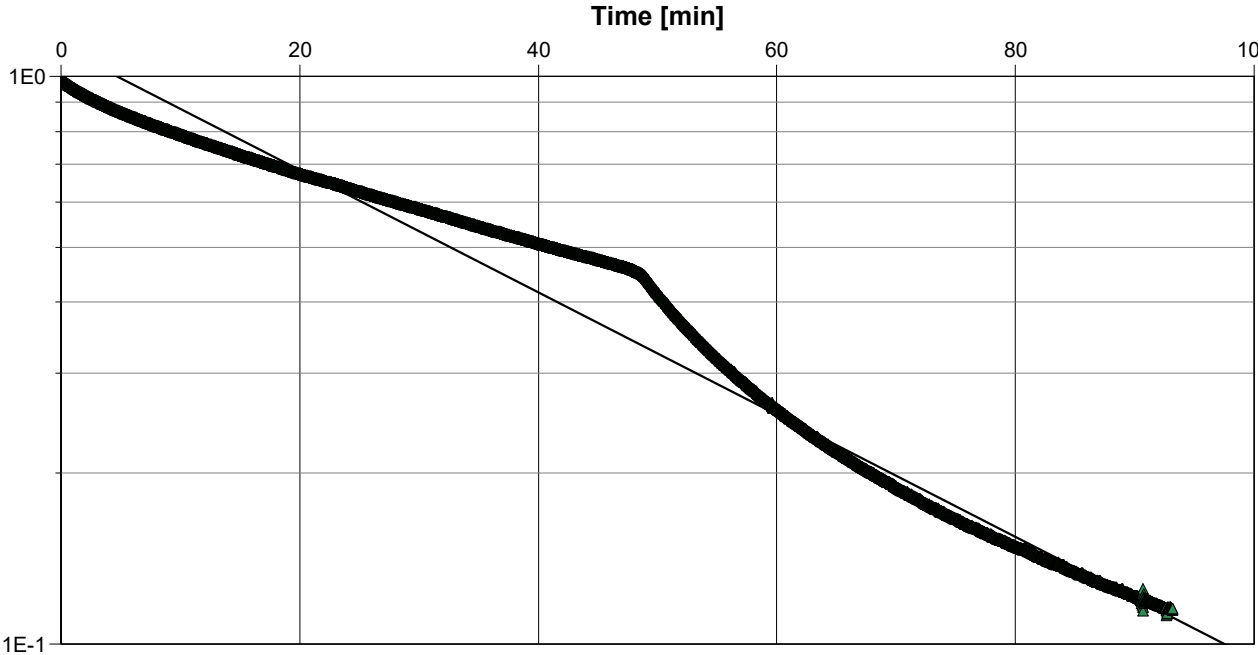
Single Well Hydraulic Test Analysis

			Slug Test Analysis Report		
			Project: Hydrogeological Assessment		
			Number: 24896.001		
			Client: Wateridge Lifestyles		
Location: Block 21 Hemlock Rd		Slug Test: BH102-25: Slug Test 1		Test Well: BH102-25	
Test Conducted by: M. Catt				Test Date: 2026-04-02	
Analysis Performed by: M. Catt		Bouwer and Rice		Analysis Date: 2026-04-20	
Aquifer Thickness: 3.16 m					
Time [min] 0 16 32 48 64 80 h/h0 1E0 1E-1 1E-2 					
Calculation using Bouwer & Rice					
Observation Well		Hydraulic Conductivity [m/s]			
BH102-25		4.63 × 10 ⁻⁷			

			Slug Test Analysis Report		
			Project: Hydrogeological Assessment		
			Number: 24896.001		
			Client: Wateridge Lifestyles		
Location: Block 21 Hemlock Rd		Slug Test: BH103-25: Slug Test 1		Test Well: BH103-25	
Test Conducted by: M. Catt				Test Date: 2026-04-02	
Analysis Performed by: M. Catt		Bouwer and Rice		Analysis Date: 2026-04-20	
Aquifer Thickness: 2.76 m					
Time [min] 0 12 24 36 48 60 1E0 1E-1 1E-2 h/h0					
Calculation using Bouwer & Rice					
Observation Well		Hydraulic Conductivity [m/s]			
BH103-25		2.92×10^{-7}			

			Slug Test Analysis Report		
			Project: Hydrogeological Assessment		
			Number: 24896.001		
			Client: Wateridge Lifestyles		
Location: Block 21 Hemlock Rd		Slug Test: BH103-25: Slug Test 2		Test Well: BH103-25	
Test Conducted by: M. Catt			Test Date: 2026-04-02		
Analysis Performed by: M. Catt		Bouwer and Rice		Analysis Date: 2026-04-20	
Aquifer Thickness: 2.76 m					
Time [min]					
Calculation using Bouwer & Rice					
Observation Well		Hydraulic Conductivity [m/s]			
BH103-25		4.18 × 10 ⁻⁷			

			Slug Test Analysis Report		
			Project: Hydrogeological Assessment		
			Number: 24896.001		
			Client: Wateridge Lifestyles		
Location: Block 21 Hemlock Rd		Slug Test: MW3: Slug Test 1		Test Well: MW3	
Test Conducted by: M. Catt				Test Date: 2026-04-02	
Analysis Performed by: M. Catt		Bouwer and Rice		Analysis Date: 2026-04-20	
Aquifer Thickness: 2.20 m					
Time [min] 01632486480 h/h0 1E0 1E-1 					
Calculation using Bouwer & Rice					
Observation Well		Hydraulic Conductivity			
		[m/s]			
MW3		2.85×10^{-7}			

			Slug Test Analysis Report		
			Project: Hydrogeological Assessment		
			Number: 24896.001		
			Client: Wateridge Lifestyles		
Location: Block 21 Hemlock Rd		Slug Test: MW3: Slug Test 2		Test Well: MW3	
Test Conducted by: M. Catt				Test Date: 2026-04-02	
Analysis Performed by: M. Catt		Bouwer and Rice		Analysis Date: 2026-04-20	
Aquifer Thickness: 2.20 m					
Time [min] 0 20 40 60 80 100 1E0 1E-1 h/h0 					
Calculation using Bouwer & Rice					
Observation Well		Hydraulic Conductivity [m/s]			
MW3		2.69×10^{-7}			



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

Appendix E

Water Quality Lab Report



1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Cambium Inc. (Ottawa)
301 Moodie Drive, Suite 100
Ottawa, ON K2H9C4
Attn: Brent Redmond

Client PO:
Project: 24896.001
Custody: 82761

Report Date: 12-May-2026
Order Date: 5-May-2026

Order #: 2619289

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2619289-01	MW103-25
2619289-02	MW103
2619289-03	MW103-25 (Filtered)
2619289-04	MW103 (Filtered)

Approved By:

A handwritten signature in black ink that reads 'Mark Foto'.

Mark Foto, M.Sc.
Laboratory Director

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	Ottawa	7-May-26	7-May-26
CBOD	SM 5210B - DO Probe	Ottawa	7-May-26	7-May-26
Cyanide, total	MOE E3015 - Auto Colour	Ottawa	8-May-26	8-May-26
E. coli	MOE E3407	Ottawa	7-May-26	7-May-26
Hexachlorobenzene	EPA 8081B - GC-ECD	Ottawa	12-May-26	12-May-26
Mercury by CVAA	EPA 245.2 - Cold Vapour AA	Ottawa	8-May-26	11-May-26
Metals, ICP-MS	EPA 200.8 - ICP-MS	Ottawa	7-May-26	8-May-26
Oil & Grease, mineral/synthetic	SM5520F - Gravimetric	Ottawa	11-May-26	12-May-26
Oil & Grease, total	SM5520B - Gravimetric, hexane soluble	Ottawa	11-May-26	12-May-26
Oil & Grease, Animal/Vegetable	SM5520 - Gravimetric	Ottawa	11-May-26	12-May-26
Ottawa - San/Comb: SVOC Toxic List scan	EPA 625 - GC-MS, extraction	Ottawa	11-May-26	11-May-26
Total Toxic Organic - VOCs	EPA	Ottawa	8-May-26	8-May-26
PCBs, total	EPA 608 - GC-ECD	Ottawa	12-May-26	12-May-26
pH	SM 4500-H+	Ottawa	7-May-26	7-May-26
Phenolics	EPA 420.2 - Auto Colour, 4AAP	Ottawa	8-May-26	8-May-26
Phosphorus, total, water	EPA 365.4 - Auto Colour, digestion	Ottawa	8-May-26	8-May-26
Sulphide	SM 4500SE - Colourimetric	Ottawa	8-May-26	8-May-26
Total Kjeldahl Nitrogen	EPA 351.2 - Auto Colour, digestion	Ottawa	8-May-26	8-May-26
Total Suspended Solids	SM 2540D - Gravimetric	Ottawa	7-May-26	8-May-26
VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	Ottawa	8-May-26	8-May-26



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Summary of Criteria Exceedances

If this page is blank, then there are no exceedances

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted in red have exceeded the selected regulatory limit. A blue highlight represents a non-detect result with a reporting limit that exceeds the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Sewer Use - Ottawa: San/Comb 2025-94	Sewer Use - Ottawa: Storm 2025-94
MW103-25	Total Suspended Solids	2 mg/L	339	350 mg/L	15 mg/L
MW103-25	Manganese	0.05 mg/L	0.17	5 mg/L	0.05 mg/L
MW103-25	Zinc	0.02 mg/L	0.05	3 mg/L	0.04 mg/L
MW103	Phosphorus, total	0.01 mg/L	1.01	10 mg/L	0.4 mg/L
MW103	Total Suspended Solids	2 mg/L	1050	350 mg/L	15 mg/L
MW103	Manganese	0.05 mg/L	0.40	5 mg/L	0.05 mg/L
MW103 (Filtered)	Manganese	0.050 mg/L	0.091	5 mg/L	0.05 mg/L



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Microbiological Parameters

E. coli	1 CFU/100mL	<10 [1] [2] [3]	<10 [1] [2]	-	-	-	-
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General Inorganics

CBOD	2 mg/L	<2	<2	-	-	300 mg/L	25 mg/L
Cyanide, total	0.01 mg/L	<0.01	<0.01	-	-	2 mg/L	0.02 mg/L
pH	0.1 pH Units	7.7	7.8	-	-	-	-
Phenolics	0.001 mg/L	<0.001	<0.001	-	-	1 mg/L	0.008 mg/L
Phosphorus, total	0.01 mg/L	0.24	1.01	-	-	10 mg/L	0.4 mg/L
Total Suspended Solids	2 mg/L	339	1050	-	-	350 mg/L	15 mg/L
Sulphide	0.02 mg/L	<0.02	<0.02	-	-	2 mg/L	-
Total Kjeldahl Nitrogen	0.1 mg/L	0.4	0.1	-	-	100 mg/L	-

Anions

Fluoride	0.1 mg/L	<0.1	<0.1	-	-	10 mg/L	-
Sulphate	1 mg/L	67	25	-	-	1500 mg/L	-

Metals

Aluminum	0.010 mg/L	-	-	<0.010	<0.010	50 mg/L	-
Antimony	0.001 mg/L	-	-	<0.001	<0.001	5 mg/L	-
Arsenic	0.010 mg/L	-	-	<0.010	<0.010	1 mg/L	0.02 mg/L
Barium	0.010 mg/L	-	-	0.079	0.145	-	-
Boron	0.050 mg/L	-	-	<0.050	<0.050	25 mg/L	-
Cadmium	0.001 mg/L	-	-	<0.001	<0.001	0.02 mg/L	0.008 mg/L
Chromium	0.050 mg/L	-	-	<0.050	<0.050	5 mg/L	0.07 mg/L
Cobalt	0.001 mg/L	-	-	<0.001	0.001	5 mg/L	-
Copper	0.005 mg/L	-	-	<0.005	<0.005	3 mg/L	0.04 mg/L
Lead	0.001 mg/L	-	-	<0.001	<0.001	5 mg/L	0.12 mg/L
Manganese	0.050 mg/L	-	-	<0.050	0.091	5 mg/L	0.05 mg/L
Mercury	0.0001 mg/L	-	-	<0.0001	<0.0001	0.001 mg/L	0.0004 mg/L

Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Metals

Molybdenum	0.005 mg/L	-	-	<0.005	<0.005	5 mg/L	-
Nickel	0.005 mg/L	-	-	<0.005	<0.005	3 mg/L	0.08 mg/L
Selenium	0.005 mg/L	-	-	<0.005	<0.005	5 mg/L	0.02 mg/L
Silver	0.001 mg/L	-	-	<0.001	<0.001	5 mg/L	0.12 mg/L
Tin	0.010 mg/L	-	-	<0.010	<0.010	5 mg/L	-
Titanium	0.010 mg/L	-	-	<0.010	<0.010	5 mg/L	-
Vanadium	0.001 mg/L	-	-	<0.001	<0.001	5 mg/L	-
Zinc	0.020 mg/L	-	-	<0.020	<0.020	3 mg/L	0.04 mg/L

Metals - Total

Aluminum	0.01 mg/L	3.73	4.93	-	-	50 mg/L	-
Antimony	0.001 mg/L	0.001	<0.001	-	-	5 mg/L	-
Arsenic	0.01 mg/L	<0.01	<0.01	-	-	1 mg/L	0.02 mg/L
Bismuth	0.005 mg/L	<0.005	<0.005	-	-	5 mg/L	-
Boron	0.05 mg/L	<0.05	<0.05	-	-	25 mg/L	-
Cadmium	0.001 mg/L	<0.001	<0.001	-	-	0.02 mg/L	0.008 mg/L
Chromium	0.05 mg/L	<0.05	<0.05	-	-	5 mg/L	0.07 mg/L
Cobalt	0.001 mg/L	0.006	0.012	-	-	5 mg/L	-
Copper	0.005 mg/L	0.018	0.015	-	-	3 mg/L	0.04 mg/L
Lead	0.001 mg/L	0.017	0.006	-	-	5 mg/L	0.12 mg/L
Manganese	0.05 mg/L	0.17	0.40	-	-	5 mg/L	0.05 mg/L
Mercury	0.0001 mg/L	<0.0001	<0.0001	-	-	0.001 mg/L	0.0004 mg/L
Molybdenum	0.005 mg/L	<0.005	<0.005	-	-	5 mg/L	-
Nickel	0.005 mg/L	0.014	0.014	-	-	3 mg/L	0.08 mg/L
Selenium	0.005 mg/L	<0.005	<0.005	-	-	5 mg/L	0.02 mg/L
Silver	0.001 mg/L	<0.001	<0.001	-	-	5 mg/L	0.12 mg/L
Tin	0.01 mg/L	<0.01	<0.01	-	-	5 mg/L	-

Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Metals - Total

Titanium	0.01 mg/L	0.20	0.33	-	-	5 mg/L	-
Vanadium	0.001 mg/L	0.013	0.012	-	-	5 mg/L	-
Zinc	0.02 mg/L	0.05	0.03	-	-	3 mg/L	0.04 mg/L

Volatiles

Acetone	0.0050 mg/L	<0.0050	<0.0050	-	-	5 mg/L	-
Benzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.01 mg/L	0.002 mg/L
Bromodichloromethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Bromoform	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Bromomethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Carbon Tetrachloride	0.0002 mg/L	<0.0002	<0.0002	-	-	0.1 mg/L	-
Chlorobenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Chloroethane	0.0010 mg/L	<0.0010	<0.0010	-	-	0.1 mg/L	-
Chloroform	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.002 mg/L
Chloromethane	0.0030 mg/L	<0.0030	<0.0030	-	-	0.1 mg/L	-
Dibromochloromethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Dichlorodifluoromethane	0.0010 mg/L	<0.0010	<0.0010	-	-	0.1 mg/L	-
1,2-Dibromoethane	0.0002 mg/L	<0.0002	<0.0002	-	-	0.1 mg/L	-
1,2-Dichlorobenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0056 mg/L
1,3-Dichlorobenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,4-Dichlorobenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0068 mg/L
1,1-Dichloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,2-Dichloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,1-Dichloroethylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.01 mg/L	-
cis-1,2-Dichloroethylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0056 mg/L
trans-1,2-Dichloroethylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,2-Dichloropropane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Volatiles

cis-1,3-Dichloropropylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
trans-1,3-Dichloropropylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0056 mg/L
Ethylbenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.002 mg/L
Methyl Ethyl Ketone (2-Butanone)	0.0050 mg/L	<0.0050	<0.0050	-	-	0.1 mg/L	-
Methyl Butyl Ketone (2-Hexanone)	0.0100 mg/L	<0.0100	<0.0100	-	-	0.1 mg/L	-
Methyl Isobutyl Ketone	0.0050 mg/L	<0.0050	<0.0050	-	-	0.1 mg/L	-
Methyl tert-butyl ether	0.0020 mg/L	<0.0020	<0.0020	-	-	0.1 mg/L	-
Methylene Chloride	0.0050 mg/L	<0.0050	<0.0050	-	-	0.1 mg/L	0.0052 mg/L
Styrene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,1,1,2-Tetrachloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,1,2,2-Tetrachloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0044 mg/L
Tetrachloroethylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0044 mg/L
Toluene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.002 mg/L
1,1,1-Trichloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
1,1,2-Trichloroethane	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Trichloroethylene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0076 mg/L
Trichlorofluoromethane	0.0010 mg/L	<0.0010	<0.0010	-	-	0.1 mg/L	-
1,3,5-Trimethylbenzene	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	-
Vinyl chloride	0.0005 mg/L	<0.0005	<0.0005	-	-	0.01 mg/L	-
m,p-Xylenes	0.0005 mg/L	<0.0005	<0.0005	-	-	-	-
o-Xylene	0.0005 mg/L	<0.0005	<0.0005	-	-	-	-
Xylenes, total	0.0005 mg/L	<0.0005	<0.0005	-	-	0.1 mg/L	0.0044 mg/L
Total Toxic Organic - VOCs	0.05 mg/L	<0.05	<0.05	-	-	1 mg/L	-

Hydrocarbons

Oil & Grease, Animal/Vegetable	0.5 mg/L	<0.5	<0.5	-	-	150 mg/L	-
Oil & Grease, mineral/synthetic	0.5 mg/L	<0.5	<0.5	-	-	15 mg/L	-



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Hydrocarbons

Oil & Grease, total	0.5 mg/L	<0.5	<0.5	-	-	-
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Semi-Volatiles

1,2,4-Trichlorobenzene	0.00050 mg/L	<0.00050	<0.00050	-	-	0.1 mg/L	-
1-Chloronaphthalene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
1-Methylnaphthalene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
2,4-Dinitrotoluene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,6-Dinitrotoluene	0.00050 mg/L	<0.00050	<0.00050	-	-	0.1 mg/L	-
Dinitrotoluene (2,4 & 2,6)	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2-Chloronaphthalene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2-Methylnaphthalene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Methylnaphthalene (1&2)	0.00010 mg/L	<0.00010	<0.00010	-	-	0.1 mg/L	-
3,3'-Dichlorobenzidine	0.00050 mg/L	<0.00050	<0.00050	-	-	0.1 mg/L	-
4-Bromophenylphenylether	0.00030 mg/L	<0.00030	<0.00030	-	-	-	-
4-Chloroaniline	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
4-Chlorophenylphenylether	0.00200 mg/L	<0.00200	<0.00200	-	-	0.1 mg/L	-
5-Nitroacenaphthene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
7H-Dibenzo[c,g]carbazole	0.00050 mg/L	<0.00050	<0.00050	-	-	-	-
Acenaphthene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Acenaphthylene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Acridine	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Anthracene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Azobenzene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Benzo [a] anthracene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Benzo [a] pyrene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Benzo [b&j] fluoranthene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Benzo [e] pyrene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Semi-Volatiles

Benzo [g,h,i] perylene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Benzo [k] fluoranthene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Benzylbutylphthalate	0.00050 mg/L	<0.00050	<0.00050	-	-	-	-
Biphenyl	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Bis(2-chloroethoxy)methane	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Bis(2-chloroethyl)ether	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Bis(2-chloroisopropyl)ether	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Bis(2-ethylhexyl)phthalate	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Camphene	0.00200 mg/L	<0.00200	<0.00200	-	-	0.1 mg/L	-
Chrysene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Dibenzo [a,h] anthracene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Dibenzo [a,i] pyrene	0.00050 mg/L	<0.00050	<0.00050	-	-	-	-
Dibenzo [a,j] acridine	0.00050 mg/L	<0.00050	<0.00050	-	-	-	-
Diethylphthalate	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Diphenylamine	0.00500 mg/L	<0.00500	<0.00500	-	-	-	-
Dimethylphthalate	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Di-n-butylphthalate	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Di-n-octylphthalate	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Diphenylether	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Fluoranthene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Fluorene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Hexachlorobenzene	0.00001 mg/L	<0.00001	<0.00001	-	-	0.0001 mg/L	-
Hexachlorobutadiene	0.00001 mg/L	<0.00001	<0.00001	-	-	0.1 mg/L	-
Hexachlorocyclopentadiene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Hexachloroethane	0.00001 mg/L	<0.00001	<0.00001	-	-	0.1 mg/L	-
Indeno [1,2,3-cd] pyrene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-

Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Semi-Volatiles

Indole	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Isophorone	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Naphthalene	0.00005 mg/L	<0.00005	<0.00005	-	-	0.1 mg/L	-
Nitrobenzene	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
N-Nitroso-di-n-propylamine	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
Phenanthrene	0.00005 mg/L	<0.00005	<0.00005	-	-	-	-
Perylene	0.00050 mg/L	<0.00050	<0.00050	-	-	-	-
Pyrene	0.00001 mg/L	<0.00001	<0.00001	-	-	-	-
Quinoline	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,3,4,6-Tetrachlorophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,3,5,6-Tetrachlorophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,4,5-Trichlorophenol	0.00010 mg/L	<0.00010	<0.00010	-	-	0.1 mg/L	-
2,4,6-Trichlorophenol	0.00020 mg/L	<0.00020	<0.00020	-	-	0.1 mg/L	-
2,4-Dichlorophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,4-Dimethylphenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2,4-Dinitrophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2-Chlorophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2-Methylphenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
2-Nitrophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
3/4-Methylphenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
4-Chloro-3-methylphenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
4-Nitrophenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-
PAHs, total	0.0034 mg/L	<0.0025	<0.0025	-	-	0.015 mg/L	-
Total Toxic Organic - SVOCs	0.05 mg/L	<0.04	<0.04	-	-	1 mg/L	-
Pentachlorophenol	0.00050 mg/L	<0.00050	<0.00050	-	-	0.1 mg/L	-
Phenol	0.00100 mg/L	<0.00100	<0.00100	-	-	0.1 mg/L	-



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Client ID:	MW103-25	MW103	MW103-25 (Filtered)	MW103 (Filtered)	Criteria:	
Sample Date:	05-May-26 08:55	05-May-26 10:30	05-May-26 08:55	05-May-26 10:30	Sewer Use - Ottawa:	Sewer Use - Ottawa:
Sample ID:	2619289-01	2619289-02	2619289-03	2619289-04	San/Comb 2025-94	Storm 2025-94
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
MDL/Units						

Semi-Volatiles

2-Fluorobiphenyl	Surrogate	81.0%	78.4%	-	-	-	-
Nitrobenzene-d5	Surrogate	144% [6]	170% [6]	-	-	-	-
Terphenyl-d14	Surrogate	87.8%	83.2%	-	-	-	-
2,4,6-Tribromophenol	Surrogate	133%	129%	-	-	-	-
2-Fluorophenol	Surrogate	79.8%	71.6%	-	-	-	-
Phenol-d6	Surrogate	101%	95.3%	-	-	-	-

Pesticides, OC

Hexachlorobenzene	0.00001 mg/L	<0.00001	<0.00001	-	-	0.0001 mg/L	-
Decachlorobiphenyl	Surrogate	73.8%	75.4%	-	-	-	-

PCBs

PCBs, total	0.05 ug/L	<0.05	<0.05	-	-	0.001 mg/L	0.001 mg/L
Decachlorobiphenyl	Surrogate	65.9%	67.1%	-	-	-	-

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions								
Fluoride	ND	0.1	mg/L					
Sulphate	ND	1	mg/L					
General Inorganics								
CBOD	ND	2	mg/L					
Cyanide, total	ND	0.01	mg/L					
Phenolics	ND	0.001	mg/L					
Phosphorus, total	ND	0.01	mg/L					
Total Suspended Solids	ND	2	mg/L					
Sulphide	ND	0.02	mg/L					
Total Kjeldahl Nitrogen	ND	0.1	mg/L					
Hydrocarbons								
Oil & Grease, mineral/synthetic	ND	0.5	mg/L					
Oil & Grease, total	ND	0.5	mg/L					
Metals								
Aluminum	ND	0.010	mg/L					
Antimony	ND	0.001	mg/L					
Arsenic	ND	0.010	mg/L					
Barium	ND	0.010	mg/L					
Boron	ND	0.050	mg/L					
Cadmium	ND	0.001	mg/L					
Chromium	ND	0.050	mg/L					
Cobalt	ND	0.001	mg/L					
Copper	ND	0.005	mg/L					
Lead	ND	0.001	mg/L					
Manganese	ND	0.050	mg/L					
Mercury	ND	0.0001	mg/L					
Molybdenum	ND	0.005	mg/L					
Nickel	ND	0.005	mg/L					
Selenium	ND	0.005	mg/L					
Silver	ND	0.001	mg/L					
Tin	ND	0.010	mg/L					
Titanium	ND	0.010	mg/L					



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Vanadium	ND	0.001	mg/L					
Zinc	ND	0.020	mg/L					
Metals - Total								
Aluminum	ND	0.01	mg/L					
Antimony	ND	0.001	mg/L					
Arsenic	ND	0.01	mg/L					
Bismuth	ND	0.005	mg/L					
Boron	ND	0.05	mg/L					
Cadmium	ND	0.001	mg/L					
Chromium	ND	0.05	mg/L					
Cobalt	ND	0.001	mg/L					
Copper	ND	0.005	mg/L					
Lead	ND	0.001	mg/L					
Manganese	ND	0.05	mg/L					
Mercury	ND	0.0001	mg/L					
Molybdenum	ND	0.005	mg/L					
Nickel	ND	0.005	mg/L					
Selenium	ND	0.005	mg/L					
Silver	ND	0.001	mg/L					
Tin	ND	0.01	mg/L					
Titanium	ND	0.01	mg/L					
Vanadium	ND	0.001	mg/L					
Zinc	ND	0.02	mg/L					
Microbiological Parameters								
E. coli	ND	1	CFU/100mL					
PCBs								
PCBs, total	ND	0.05	ug/L					
Surrogate: Decachlorobiphenyl	0.219		%	87.6	60-140			
Pesticides, OC								
Hexachlorobenzene	ND	0.00001	mg/L					
Surrogate: Decachlorobiphenyl	0.00028		%	114	50-140			
Semi-Volatiles								
1,2,4-Trichlorobenzene	ND	0.00050	mg/L					

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1-Chloronaphthalene	ND	0.00100	mg/L					
1-Methylnaphthalene	ND	0.00005	mg/L					
2,4-Dinitrotoluene	ND	0.00100	mg/L					
2,6-Dinitrotoluene	ND	0.00050	mg/L					
Dinitrotoluene (2,4 & 2,6)	ND	0.00100	mg/L					
2-Chloronaphthalene	ND	0.00100	mg/L					
2-Methylnaphthalene	ND	0.00005	mg/L					
Methylnaphthalene (1&2)	ND	0.00010	mg/L					
3,3'-Dichlorobenzidine	ND	0.00050	mg/L					
4-Bromophenylphenylether	ND	0.00030	mg/L					
4-Chloroaniline	ND	0.00100	mg/L					
4-Chlorophenylphenylether	ND	0.00200	mg/L					
5-Nitroacenaphthene	ND	0.00100	mg/L					
7H-Dibenzo[c,g]carbazole	ND	0.00050	mg/L					
Acenaphthene	ND	0.00005	mg/L					
Acenaphthylene	ND	0.00005	mg/L					
Acridine	ND	0.00005	mg/L					
Anthracene	ND	0.00001	mg/L					
Azobenzene	ND	0.00100	mg/L					
Benzo [a] anthracene	ND	0.00001	mg/L					
Benzo [a] pyrene	ND	0.00001	mg/L					
Benzo [b&j] fluoranthene	ND	0.00005	mg/L					
Benzo [e] pyrene	ND	0.00005	mg/L					
Benzo [g,h,i] perylene	ND	0.00005	mg/L					
Benzo [k] fluoranthene	ND	0.00005	mg/L					
Benzylbutylphthalate	ND	0.00050	mg/L					
Biphenyl	ND	0.00005	mg/L					
Bis(2-chloroethoxy)methane	ND	0.00100	mg/L					
Bis(2-chloroethyl)ether	ND	0.00100	mg/L					
Bis(2-chloroisopropyl)ether	ND	0.00100	mg/L					
Bis(2-ethylhexyl)phthalate	ND	0.00100	mg/L					
Camphene	ND	0.00200	mg/L					
Chrysene	ND	0.00005	mg/L					

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Dibenzo [a,h] anthracene	ND	0.00005	mg/L					
Dibenzo [a,i] pyrene	ND	0.00050	mg/L					
Dibenzo [a,j] acridine	ND	0.00050	mg/L					
Diethylphthalate	ND	0.00100	mg/L					
Diphenylamine	ND	0.00500	mg/L					
Dimethylphthalate	ND	0.00100	mg/L					
Di-n-butylphthalate	ND	0.00100	mg/L					
Di-n-octylphthalate	ND	0.00100	mg/L					
Diphenylether	ND	0.00100	mg/L					
Fluoranthene	ND	0.00001	mg/L					
Fluorene	ND	0.00005	mg/L					
Hexachlorobenzene	ND	0.00001	mg/L					
Hexachlorobutadiene	ND	0.00001	mg/L					
Hexachlorocyclopentadiene	ND	0.00001	mg/L					
Hexachloroethane	ND	0.00001	mg/L					
Indeno [1,2,3-cd] pyrene	ND	0.00005	mg/L					
Indole	ND	0.00100	mg/L					
Isophorone	ND	0.00100	mg/L					
Naphthalene	ND	0.00005	mg/L					
Nitrobenzene	ND	0.00100	mg/L					
N-Nitroso-di-n-propylamine	ND	0.00100	mg/L					
Phenanthrene	ND	0.00005	mg/L					
Perylene	ND	0.00050	mg/L					
Pyrene	ND	0.00001	mg/L					
Quinoline	ND	0.00100	mg/L					
2,3,4,6-Tetrachlorophenol	ND	0.00100	mg/L					
2,3,5,6-Tetrachlorophenol	ND	0.00100	mg/L					
2,4,5-Trichlorophenol	ND	0.00010	mg/L					
2,4,6-Trichlorophenol	ND	0.00020	mg/L					
2,4-Dichlorophenol	ND	0.00100	mg/L					
2,4-Dimethylphenol	ND	0.00100	mg/L					
2,4-Dinitrophenol	ND	0.00100	mg/L					
2-Chlorophenol	ND	0.00100	mg/L					

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
2-Methylphenol	ND	0.00100	mg/L					
2-Nitrophenol	ND	0.00100	mg/L					
3/4-Methylphenol	ND	0.00100	mg/L					
4-Chloro-3-methylphenol	ND	0.00100	mg/L					
4-Nitrophenol	ND	0.00100	mg/L					
Pentachlorophenol	ND	0.00050	mg/L					
Phenol	ND	0.00100	mg/L					
Surrogate: 2-Fluorobiphenyl	0.00820		%	82.0	50-140			
Surrogate: Nitrobenzene-d5	0.0169		%	169	50-140			S-GC
Surrogate: Terphenyl-d14	0.00875		%	87.5	50-140			
Surrogate: 2,4,6-Tribromophenol	0.0275		%	137	50-140			
Surrogate: 2-Fluorophenol	0.0105		%	52.5	50-140			
Surrogate: Phenol-d6	0.0160		%	79.9	50-140			
Volatiles								
Acetone	ND	0.0050	mg/L					
Benzene	ND	0.0005	mg/L					
Bromodichloromethane	ND	0.0005	mg/L					
Bromoform	ND	0.0005	mg/L					
Bromomethane	ND	0.0005	mg/L					
Carbon Tetrachloride	ND	0.0002	mg/L					
Chlorobenzene	ND	0.0005	mg/L					
Chloroethane	ND	0.0010	mg/L					
Chloroform	ND	0.0005	mg/L					
Chloromethane	ND	0.0030	mg/L					
Dibromochloromethane	ND	0.0005	mg/L					
Dichlorodifluoromethane	ND	0.0010	mg/L					
1,2-Dibromoethane	ND	0.0002	mg/L					
1,2-Dichlorobenzene	ND	0.0005	mg/L					
1,3-Dichlorobenzene	ND	0.0005	mg/L					
1,4-Dichlorobenzene	ND	0.0005	mg/L					
1,1-Dichloroethane	ND	0.0005	mg/L					
1,2-Dichloroethane	ND	0.0005	mg/L					

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1-Dichloroethylene	ND	0.0005	mg/L					
cis-1,2-Dichloroethylene	ND	0.0005	mg/L					
trans-1,2-Dichloroethylene	ND	0.0005	mg/L					
1,2-Dichloropropane	ND	0.0005	mg/L					
cis-1,3-Dichloropropylene	ND	0.0005	mg/L					
trans-1,3-Dichloropropylene	ND	0.0005	mg/L					
Ethylbenzene	ND	0.0005	mg/L					
Methyl Ethyl Ketone (2-Butanone)	ND	0.0050	mg/L					
Methyl Butyl Ketone (2-Hexanone)	ND	0.0100	mg/L					
Methyl Isobutyl Ketone	ND	0.0050	mg/L					
Methyl tert-butyl ether	ND	0.0020	mg/L					
Methylene Chloride	ND	0.0050	mg/L					
Styrene	ND	0.0005	mg/L					
1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L					
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L					
Tetrachloroethylene	ND	0.0005	mg/L					
Toluene	ND	0.0005	mg/L					
1,1,1-Trichloroethane	ND	0.0005	mg/L					
1,1,2-Trichloroethane	ND	0.0005	mg/L					
Trichloroethylene	ND	0.0005	mg/L					
Trichlorofluoromethane	ND	0.0010	mg/L					
1,3,5-Trimethylbenzene	ND	0.0005	mg/L					
Vinyl chloride	ND	0.0005	mg/L					
m,p-Xylenes	ND	0.0005	mg/L					
o-Xylene	ND	0.0005	mg/L					
Xylenes, total	ND	0.0005	mg/L					
Surrogate: 4-Bromofluorobenzene	0.0807		%	101	50-140			
Surrogate: Dibromofluoromethane	0.0728		%	91.0	50-140			
Surrogate: Toluene-d8	0.0838		%	105	50-140			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Fluoride	0.26	0.1	mg/L	0.27			3.4	20	
Sulphate	145	1	mg/L	144			0.6	10	
General Inorganics									
Cyanide, total	0.039	0.01	mg/L	0.038			0.3	20	
pH	7.2	0.1	pH Units	7.2			0.0	3.3	
Phenolics	ND	0.001	mg/L	ND			NC	10	
Phosphorus, total	0.217	0.01	mg/L	0.243			11.1	15	
Total Suspended Solids	ND	2	mg/L	ND			NC	10	
Sulphide	ND	0.02	mg/L	ND			NC	10	
Total Kjeldahl Nitrogen	0.37	0.1	mg/L	0.35			4.1	20	
Metals									
Aluminum	ND	0.010	mg/L	ND			NC	20	
Antimony	ND	0.001	mg/L	ND			NC	20	
Arsenic	ND	0.010	mg/L	ND			NC	20	
Barium	0.0807	0.010	mg/L	0.0791			2.0	20	
Boron	ND	0.050	mg/L	ND			NC	20	
Cadmium	ND	0.001	mg/L	ND			NC	20	
Chromium	ND	0.050	mg/L	ND			NC	20	
Cobalt	ND	0.001	mg/L	ND			NC	20	
Copper	ND	0.005	mg/L	ND			NC	20	
Lead	ND	0.001	mg/L	ND			NC	20	
Mercury	ND	0.0001	mg/L	ND			NC	20	
Manganese	ND	0.050	mg/L	ND			NC	20	
Molybdenum	ND	0.005	mg/L	ND			NC	20	
Nickel	ND	0.005	mg/L	ND			NC	20	
Selenium	ND	0.005	mg/L	ND			NC	20	
Silver	ND	0.001	mg/L	ND			NC	20	
Tin	ND	0.010	mg/L	ND			NC	20	
Titanium	ND	0.010	mg/L	ND			NC	20	
Vanadium	ND	0.001	mg/L	ND			NC	20	

Certificate of Analysis

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Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	ND	0.020	mg/L	ND			NC	20	
Metals - Total									
Aluminum	1.18	0.01	mg/L	1.27			7.1	20	
Antimony	0.008	0.001	mg/L	0.008			2.8	20	
Arsenic	ND	0.01	mg/L	ND			NC	20	
Bismuth	ND	0.005	mg/L	ND			NC	20	
Boron	ND	0.05	mg/L	ND			NC	20	
Cadmium	ND	0.001	mg/L	ND			NC	20	
Chromium	0.100	0.05	mg/L	0.106			5.8	20	
Cobalt	0.005	0.001	mg/L	0.005			6.8	20	
Copper	0.161	0.005	mg/L	0.171			5.9	20	
Lead	0.012	0.001	mg/L	0.012			0.3	20	
Mercury	ND	0.0001	mg/L	ND			NC	20	
Manganese	0.144	0.05	mg/L	0.149			2.8	20	
Molybdenum	0.022	0.005	mg/L	0.022			2.8	20	
Nickel	0.025	0.005	mg/L	0.027			5.0	20	
Selenium	ND	0.005	mg/L	ND			NC	20	
Silver	ND	0.001	mg/L	ND			NC	20	
Tin	ND	0.01	mg/L	ND			NC	20	
Titanium	0.016	0.01	mg/L	0.017			10.2	20	
Vanadium	0.006	0.001	mg/L	0.006			6.0	20	
Zinc	0.244	0.02	mg/L	0.252			3.6	20	
Microbiological Parameters									
E. coli	ND	10	CFU/100mL	ND			NC	30	BAC06, BAC12
Semi-Volatiles									
1,2,4-Trichlorobenzene	ND	0.00050	mg/L	ND			NC	30	
1-Chloronaphthalene	ND	0.00100	mg/L	ND			NC	30	
1-Methylnaphthalene	ND	0.00005	mg/L	ND			NC	30	
2,4-Dinitrotoluene	ND	0.00100	mg/L	ND			NC	30	
2,6-Dinitrotoluene	ND	0.00050	mg/L	ND			NC	30	
2-Chloronaphthalene	ND	0.00100	mg/L	ND			NC	30	

Certificate of Analysis

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Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
2-Methylnaphthalene	ND	0.00005	mg/L	ND			NC	30	
3,3'-Dichlorobenzidine	ND	0.00050	mg/L	ND			NC	30	
4-Bromophenylphenylether	ND	0.00030	mg/L	ND			NC	30	
4-Chloroaniline	ND	0.00100	mg/L	ND			NC	30	
4-Chlorophenylphenylether	ND	0.00200	mg/L	ND			NC	30	
5-Nitroacenaphthene	ND	0.00100	mg/L	ND			NC	30	
7H-Dibenzo[c,g]carbazole	ND	0.00050	mg/L	ND			NC	30	
Acenaphthene	ND	0.00005	mg/L	ND			NC	30	
Acenaphthylene	ND	0.00005	mg/L	ND			NC	30	
Acridine	ND	0.00005	mg/L	ND			NC	30	
Anthracene	ND	0.00001	mg/L	ND			NC	30	
Azobenzene	ND	0.00100	mg/L	ND			NC	30	
Benzo [a] anthracene	ND	0.00001	mg/L	ND			NC	30	
Benzo [a] pyrene	ND	0.00001	mg/L	ND			NC	30	
Benzo [b&j] fluoranthene	ND	0.00005	mg/L	ND			NC	30	
Benzo [e] pyrene	ND	0.00005	mg/L	ND			NC	30	
Benzo [g,h,i] perylene	ND	0.00005	mg/L	ND			NC	30	
Benzo [k] fluoranthene	ND	0.00005	mg/L	ND			NC	30	
Benzylbutylphthalate	ND	0.00050	mg/L	ND			NC	30	
Biphenyl	ND	0.00005	mg/L	ND			NC	30	
Bis(2-chloroethoxy)methane	ND	0.00100	mg/L	ND			NC	30	
Bis(2-chloroethyl)ether	ND	0.00100	mg/L	ND			NC	30	
Bis(2-chloroisopropyl)ether	ND	0.00100	mg/L	ND			NC	30	
Bis(2-ethylhexyl)phthalate	ND	0.00100	mg/L	ND			NC	30	
Camphene	ND	0.00200	mg/L	ND			NC	30	
Chrysene	ND	0.00005	mg/L	ND			NC	30	
Dibenzo [a,h] anthracene	ND	0.00005	mg/L	ND			NC	30	
Dibenzo [a,i] pyrene	ND	0.00050	mg/L	ND			NC	30	
Dibenzo [a,j] acridine	ND	0.00050	mg/L	ND			NC	30	
Diethylphthalate	ND	0.00100	mg/L	ND			NC	30	
Diphenylamine	ND	0.00500	mg/L	ND			NC	30	

Certificate of Analysis

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Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dimethylphthalate	ND	0.00100	mg/L	ND			NC	30	
Di-n-butylphthalate	ND	0.00100	mg/L	ND			NC	30	
Di-n-octylphthalate	ND	0.00100	mg/L	ND			NC	30	
Diphenylether	ND	0.00100	mg/L	ND			NC	30	
Fluoranthene	ND	0.00001	mg/L	ND			NC	30	
Fluorene	ND	0.00005	mg/L	ND			NC	30	
Hexachlorobenzene	ND	0.00001	mg/L	ND			NC	30	
Hexachlorobutadiene	ND	0.00001	mg/L	ND			NC	30	
Hexachlorocyclopentadiene	ND	0.00001	mg/L	ND			NC	30	
Hexachloroethane	ND	0.00001	mg/L	ND			NC	30	
Indeno [1,2,3-cd] pyrene	ND	0.00005	mg/L	ND			NC	30	
Indole	ND	0.00100	mg/L	ND			NC	30	
Isophorone	ND	0.00100	mg/L	ND			NC	30	
Naphthalene	ND	0.00005	mg/L	ND			NC	30	
Nitrobenzene	ND	0.00100	mg/L	ND			NC	30	
N-Nitroso-di-n-propylamine	ND	0.00100	mg/L	ND			NC	30	
Phenanthrene	ND	0.00005	mg/L	ND			NC	30	
Perylene	ND	0.00050	mg/L	ND			NC	30	
Pyrene	ND	0.00001	mg/L	ND			NC	30	
Quinoline	ND	0.00100	mg/L	ND			NC	30	
2,3,4,6-Tetrachlorophenol	ND	0.00100	mg/L	ND			NC	30	
2,3,5,6-Tetrachlorophenol	ND	0.00100	mg/L	ND			NC	30	
2,4,5-Trichlorophenol	ND	0.00010	mg/L	ND			NC	30	
2,4,6-Trichlorophenol	ND	0.00020	mg/L	ND			NC	30	
2,4-Dichlorophenol	ND	0.00100	mg/L	ND			NC	30	
2,4-Dimethylphenol	ND	0.00100	mg/L	ND			NC	30	
2,4-Dinitrophenol	ND	0.00100	mg/L	ND			NC	30	
2-Chlorophenol	ND	0.00100	mg/L	ND			NC	30	
2-Methylphenol	ND	0.00100	mg/L	ND			NC	30	
2-Nitrophenol	ND	0.00100	mg/L	ND			NC	30	
3/4-Methylphenol	ND	0.00100	mg/L	ND			NC	30	

Certificate of Analysis

Report Date: 12-May-2026

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Project Description: 24896.001

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	ND	0.00100	mg/L	ND			NC	30	
4-Nitrophenol	ND	0.00100	mg/L	ND			NC	30	
Pentachlorophenol	ND	0.00050	mg/L	ND			NC	30	
Phenol	ND	0.00100	mg/L	ND			NC	30	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.00680</i>		%		<i>73.5</i>	<i>50-140</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.0125</i>		%		<i>135</i>	<i>50-140</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>0.00729</i>		%		<i>78.7</i>	<i>50-140</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.0225</i>		%		<i>121</i>	<i>50-140</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>0.0100</i>		%		<i>54.0</i>	<i>50-140</i>			
<i>Surrogate: Phenol-d6</i>	<i>0.0142</i>		%		<i>76.9</i>	<i>50-140</i>			
Volatiles									
Acetone	ND	0.0050	mg/L	ND			NC	30	
Benzene	ND	0.0005	mg/L	ND			NC	30	
Bromodichloromethane	ND	0.0005	mg/L	ND			NC	30	
Bromoform	ND	0.0005	mg/L	ND			NC	30	
Bromomethane	ND	0.0005	mg/L	ND			NC	30	
Carbon Tetrachloride	ND	0.0002	mg/L	ND			NC	30	
Chlorobenzene	ND	0.0005	mg/L	ND			NC	30	
Chloroethane	ND	0.0010	mg/L	ND			NC	30	
Chloroform	ND	0.0005	mg/L	ND			NC	30	
Chloromethane	ND	0.0030	mg/L	ND			NC	30	
Dibromochloromethane	ND	0.0005	mg/L	ND			NC	30	
Dichlorodifluoromethane	ND	0.0010	mg/L	ND			NC	30	
1,2-Dibromoethane	ND	0.0002	mg/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.0005	mg/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.0005	mg/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.0005	mg/L	ND			NC	30	
1,1-Dichloroethane	ND	0.0005	mg/L	ND			NC	30	
1,2-Dichloroethane	ND	0.0005	mg/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.0005	mg/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.0005	mg/L	ND			NC	30	

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

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Project Description: 24896.001

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,2-Dichloroethylene	ND	0.0005	mg/L	ND			NC	30	
1,2-Dichloropropane	ND	0.0005	mg/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.0005	mg/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.0005	mg/L	ND			NC	30	
Ethylbenzene	0.211	0.0005	mg/L	0.239			12.3	30	
Methyl Ethyl Ketone (2-Butanone)	ND	0.0050	mg/L	ND			NC	30	
Methyl Butyl Ketone (2-Hexanone)	ND	0.0100	mg/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	0.0050	mg/L	ND			NC	30	
Methyl tert-butyl ether	ND	0.0020	mg/L	ND			NC	30	
Methylene Chloride	ND	0.0050	mg/L	ND			NC	30	
Styrene	ND	0.0005	mg/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L	ND			NC	30	
Tetrachloroethylene	ND	0.0005	mg/L	ND			NC	30	
Toluene	0.0006	0.0005	mg/L	0.0006			15.1	30	
1,1,1-Trichloroethane	ND	0.0005	mg/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.0005	mg/L	ND			NC	30	
Trichloroethylene	ND	0.0005	mg/L	ND			NC	30	
Trichlorofluoromethane	ND	0.0010	mg/L	ND			NC	30	
1,3,5-Trimethylbenzene	0.294	0.0005	mg/L	0.301			2.4	30	
Vinyl chloride	ND	0.0005	mg/L	ND			NC	30	
m,p-Xylenes	0.653	0.0005	mg/L	0.684			4.6	30	
o-Xylene	0.0638	0.0005	mg/L	0.0630			1.3	30	
Surrogate: 4-Bromofluorobenzene	0.0894		%		112	50-140			
Surrogate: Dibromofluoromethane	0.0682		%		85.3	50-140			
Surrogate: Toluene-d8	0.0788		%		98.4	50-140			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Fluoride	1.13	0.1	mg/L	0.27	85.5	70-130			
Sulphate	155	1	mg/L	144	104	74-126			
General Inorganics									
CBOD	227	2	mg/L	ND	114	62-129			
Cyanide, total	0.092	0.01	mg/L	0.038	107	64-136			
Phenolics	0.025	0.001	mg/L	ND	101	80-120			
Phosphorus, total	1.17	0.01	mg/L	0.243	92.8	80-120			
Total Suspended Solids	20.0	2	mg/L	ND	90.1	84-124			
Sulphide	0.49	0.02	mg/L	ND	98.8	82-118			
Total Kjeldahl Nitrogen	1.28	0.1	mg/L	0.35	92.2	75-125			
Hydrocarbons									
Oil & Grease, mineral/synthetic	6.60	0.5	mg/L	ND	66.0	65-110			
Oil & Grease, total	19.7	0.5	mg/L	ND	98.5	85-110			
Metals									
Aluminum	47.2	0.010	mg/L	0.2	94.0	80-120			
Arsenic	47.0	0.010	mg/L	0.07	93.8	80-120			
Barium	52.6	0.010	mg/L	7.9	89.4	80-120			
Boron	49.3	0.050	mg/L	4.7	89.1	80-120			
Cadmium	43.9	0.001	mg/L	ND	87.8	80-120			
Chromium	48.1	0.050	mg/L	ND	96.2	80-120			
Cobalt	46.0	0.001	mg/L	0.05	91.9	80-120			
Copper	45.0	0.005	mg/L	0.06	90.0	80-120			
Lead	44.6	0.001	mg/L	0.03	89.1	80-120			
Mercury	0.00277	0.0001	mg/L	ND	92.2	70-130			
Manganese	52.1	0.050	mg/L	4.5	95.2	80-120			
Molybdenum	44.4	0.005	mg/L	0.08	88.7	80-120			
Nickel	45.3	0.005	mg/L	0.1	90.3	80-120			
Selenium	46.2	0.005	mg/L	0.02	92.5	80-120			
Silver	42.5	0.001	mg/L	0.003	85.1	80-120			
Tin	42.6	0.010	mg/L	0.03	85.2	80-120			

Certificate of Analysis

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Order Date: 5-May-2026

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Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Titanium	49.2	0.010	mg/L	0.02	98.3	80-120			
Vanadium	48.5	0.001	mg/L	0.008	96.9	80-120			
Zinc	45.3	0.020	mg/L	0.4	89.9	80-120			
Metals - Total									
Aluminum	169	0.01	mg/L	127	84.3	80-120			
Arsenic	46.7	0.01	mg/L	0.439	92.5	80-120			
Bismuth	43.7	0.005	mg/L	0.077	87.2	80-120			
Boron	48.6	0.05	mg/L	3.01	91.3	80-120			
Cadmium	39.7	0.001	mg/L	0.040	79.3	80-120			QM-07
Chromium	58.6	0.05	mg/L	10.6	95.9	80-120			
Cobalt	46.8	0.001	mg/L	0.498	92.6	80-120			
Copper	62.3	0.005	mg/L	17.1	90.3	80-120			
Lead	43.0	0.001	mg/L	1.21	83.7	80-120			
Mercury	0.0027	0.0001	mg/L	ND	88.9	70-130			
Manganese	61.9	0.05	mg/L	14.9	94.0	80-120			
Molybdenum	47.0	0.005	mg/L	2.21	89.5	80-120			
Nickel	48.8	0.005	mg/L	2.65	92.2	80-120			
Selenium	43.6	0.005	mg/L	0.037	87.0	80-120			
Silver	39.8	0.001	mg/L	0.065	79.4	80-120			QM-07
Tin	40.6	0.01	mg/L	0.265	80.6	80-120			
Titanium	50.5	0.01	mg/L	1.74	97.5	80-120			
Vanadium	49.1	0.001	mg/L	0.604	97.1	80-120			
Zinc	67.6	0.02	mg/L	25.2	84.6	80-120			
PCBs									
PCBs, total	0.899	0.05	ug/L	ND	89.9	65-135			
Surrogate: Decachlorobiphenyl	0.241		%		96.3	60-140			
Pesticides, OC									
Hexachlorobenzene	0.00038	0.00001	mg/L	ND	76.0	50-140			
Surrogate: Decachlorobiphenyl	0.000200		%		80.2	50-140			
Semi-Volatiles									
1,2,4-Trichlorobenzene	0.00733	0.00050	mg/L	ND	79.2	50-140			

Certificate of Analysis

Report Date: 12-May-2026

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Client PO:

Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1-Chloronaphthalene	0.00723	0.00100	mg/L	ND	78.1	50-140			
1-Methylnaphthalene	0.00742	0.00005	mg/L	ND	80.1	50-140			
2,4-Dinitrotoluene	0.0114	0.00100	mg/L	ND	123	50-140			
2,6-Dinitrotoluene	0.0127	0.00050	mg/L	ND	137	50-140			
2-Chloronaphthalene	0.00772	0.00100	mg/L	ND	83.3	50-140			
2-Methylnaphthalene	0.00743	0.00005	mg/L	ND	80.2	50-140			
3,3'-Dichlorobenzidine	0.00762	0.00050	mg/L	ND	82.3	30-130			
4-Bromophenylphenylether	0.00953	0.00030	mg/L	ND	103	50-140			
4-Chloroaniline	0.00765	0.00100	mg/L	ND	82.7	30-130			
4-Chlorophenylphenylether	0.00770	0.00200	mg/L	ND	83.1	50-140			
7H-Dibenzo[c,g]carbazole	0.00670	0.00050	mg/L	ND	72.3	50-140			
Acenaphthene	0.00730	0.00005	mg/L	ND	78.8	50-140			
Acenaphthylene	0.00803	0.00005	mg/L	ND	86.7	50-140			
Anthracene	0.00802	0.00001	mg/L	ND	86.6	50-140			
Azobenzene	0.0109	0.00100	mg/L	ND	118	50-140			
Benzo [a] anthracene	0.00853	0.00001	mg/L	ND	92.1	50-140			
Benzo [a] pyrene	0.00660	0.00001	mg/L	ND	71.3	50-140			
Benzo [b&j] fluoranthene	0.0140	0.00005	mg/L	ND	75.5	50-140			
Benzo [e] pyrene	0.00629	0.00005	mg/L	ND	67.9	50-140			
Benzo [g,h,i] perylene	0.00518	0.00005	mg/L	ND	55.9	50-140			
Benzo [k] fluoranthene	0.00604	0.00005	mg/L	ND	65.2	50-140			
Benzylbutylphthalate	0.0104	0.00050	mg/L	ND	112	50-140			
Bis(2-chloroethoxy)methane	0.0129	0.00100	mg/L	ND	139	50-140			
Bis(2-chloroethyl)ether	0.00784	0.00100	mg/L	ND	84.7	50-140			
Bis(2-chloroisopropyl)ether	0.00878	0.00100	mg/L	ND	94.8	50-140			
Bis(2-ethylhexyl)phthalate	0.00997	0.00100	mg/L	ND	108	50-140			
Chrysene	0.00714	0.00005	mg/L	ND	77.1	50-140			
Dibenzo [a,i] pyrene	0.00579	0.00050	mg/L	ND	62.5	50-140			
Dibenzo [a,j] acridine	0.00476	0.00050	mg/L	ND	51.4	50-140			
Diethylphthalate	0.0115	0.00100	mg/L	ND	124	50-140			
Diphenylamine	0.00804	0.00500	mg/L	ND	86.8	30-140			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dimethylphthalate	0.0127	0.00100	mg/L	ND	137	50-140			
Di-n-butylphthalate	0.0112	0.00100	mg/L	ND	121	50-140			
Di-n-octylphthalate	0.00834	0.00100	mg/L	ND	90.0	50-140			
Diphenylether	0.00624	0.00100	mg/L	ND	67.4	50-140			
Fluoranthene	0.00843	0.00001	mg/L	ND	91.0	50-140			
Fluorene	0.00725	0.00005	mg/L	ND	78.3	50-140			
Hexachlorobenzene	0.00804	0.00001	mg/L	ND	86.8	50-140			
Hexachlorobutadiene	0.00770	0.00001	mg/L	ND	83.1	50-140			
Hexachlorocyclopentadiene	0.00838	0.00001	mg/L	ND	90.6	50-140			
Hexachloroethane	0.00885	0.00001	mg/L	ND	95.5	50-140			
Indeno [1,2,3-cd] pyrene	0.00750	0.00005	mg/L	ND	81.0	50-140			
Isophorone	0.0126	0.00100	mg/L	ND	136	50-140			
Naphthalene	0.00753	0.00005	mg/L	ND	81.3	50-140			
Nitrobenzene	0.0126	0.00100	mg/L	ND	136	50-140			
N-Nitroso-di-n-propylamine	0.0123	0.00100	mg/L	ND	133	50-140			
Phenanthrene	0.00746	0.00005	mg/L	ND	80.6	50-140			
Pyrene	0.00777	0.00001	mg/L	ND	83.9	50-140			
2,3,4,6-Tetrachlorophenol	0.0120	0.00100	mg/L	ND	129	50-140			
2,3,5,6-Tetrachlorophenol	0.0121	0.00100	mg/L	ND	130	50-140			
2,4,5-Trichlorophenol	0.0126	0.00010	mg/L	ND	136	50-140			
2,4,6-Trichlorophenol	0.0122	0.00020	mg/L	ND	131	50-140			
2,4-Dichlorophenol	0.0123	0.00100	mg/L	ND	132	50-140			
2,4-Dimethylphenol	0.0110	0.00100	mg/L	ND	119	30-130			
2,4-Dinitrophenol	0.0118	0.00100	mg/L	ND	127	30-130			
2-Chlorophenol	0.00978	0.00100	mg/L	ND	106	50-140			
2-Methylphenol	0.00884	0.00100	mg/L	ND	95.5	50-140			
2-Nitrophenol	0.0105	0.00100	mg/L	ND	114	50-140			
3/4-Methylphenol	0.00981	0.00100	mg/L	ND	106	50-140			
4-Chloro-3-methylphenol	0.0125	0.00100	mg/L	ND	135	50-140			
4-Nitrophenol	0.0108	0.00100	mg/L	ND	117	50-140			
Pentachlorophenol	0.0108	0.00050	mg/L	ND	116	50-140			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Phenol	0.00680	0.00100	mg/L	ND	73.5	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.00664</i>		%		<i>71.7</i>	<i>50-140</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.0121</i>		%		<i>131</i>	<i>50-140</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>0.00726</i>		%		<i>78.4</i>	<i>50-140</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.0223</i>		%		<i>120</i>	<i>50-140</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>0.00977</i>		%		<i>52.8</i>	<i>50-140</i>			
<i>Surrogate: Phenol-d6</i>	<i>0.0145</i>		%		<i>78.5</i>	<i>50-140</i>			
Volatiles									
Acetone	0.107	0.0050	mg/L	ND	107	50-140			
Benzene	0.0446	0.0005	mg/L	ND	111	60-130			
Bromodichloromethane	0.0494	0.0005	mg/L	ND	124	60-130			
Bromoform	0.0299	0.0005	mg/L	ND	74.8	60-130			
Bromomethane	0.0453	0.0005	mg/L	ND	113	50-140			
Carbon Tetrachloride	0.0453	0.0002	mg/L	ND	113	60-130			
Chlorobenzene	0.0373	0.0005	mg/L	ND	93.2	60-130			
Chloroethane	0.0448	0.0010	mg/L	ND	112	50-140			
Chloroform	0.0492	0.0005	mg/L	ND	123	60-130			
Chloromethane	0.0386	0.0030	mg/L	ND	96.4	50-140			
Dibromochloromethane	0.0374	0.0005	mg/L	ND	93.6	60-130			
Dichlorodifluoromethane	0.0413	0.0010	mg/L	ND	103	50-140			
1,2-Dibromoethane	0.0396	0.0002	mg/L	ND	99.0	60-130			
1,2-Dichlorobenzene	0.0384	0.0005	mg/L	ND	96.0	60-130			
1,3-Dichlorobenzene	0.0374	0.0005	mg/L	ND	93.5	60-130			
1,4-Dichlorobenzene	0.0379	0.0005	mg/L	ND	94.8	60-130			
1,1-Dichloroethane	0.0468	0.0005	mg/L	ND	117	60-130			
1,2-Dichloroethane	0.0508	0.0005	mg/L	ND	127	60-130			
1,1-Dichloroethylene	0.0448	0.0005	mg/L	ND	112	60-130			
cis-1,2-Dichloroethylene	0.0446	0.0005	mg/L	ND	112	60-130			
trans-1,2-Dichloroethylene	0.0451	0.0005	mg/L	ND	113	60-130			
1,2-Dichloropropane	0.0476	0.0005	mg/L	ND	119	60-130			
cis-1,3-Dichloropropylene	0.0452	0.0005	mg/L	ND	113	60-130			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,3-Dichloropropylene	0.0452	0.0005	mg/L	ND	113	60-130			
Ethylbenzene	0.0368	0.0005	mg/L	ND	91.9	60-130			
Methyl Ethyl Ketone (2-Butanone)	0.106	0.0050	mg/L	ND	106	50-140			
Methyl Butyl Ketone (2-Hexanone)	0.102	0.0100	mg/L	ND	102	50-140			
Methyl Isobutyl Ketone	0.121	0.0050	mg/L	ND	121	50-140			
Methyl tert-butyl ether	0.0828	0.0020	mg/L	ND	82.8	50-140			
Methylene Chloride	0.0457	0.0050	mg/L	ND	114	60-130			
Styrene	0.0360	0.0005	mg/L	ND	90.0	60-130			
1,1,1,2-Tetrachloroethane	0.0394	0.0005	mg/L	ND	98.4	60-130			
1,1,2,2-Tetrachloroethane	0.0438	0.0005	mg/L	ND	110	60-130			
Tetrachloroethylene	0.0350	0.0005	mg/L	ND	87.5	60-130			
Toluene	0.0365	0.0005	mg/L	ND	91.2	60-130			
1,1,1-Trichloroethane	0.0495	0.0005	mg/L	ND	124	60-130			
1,1,2-Trichloroethane	0.0483	0.0005	mg/L	ND	121	60-130			
Trichloroethylene	0.0463	0.0005	mg/L	ND	116	60-130			
Trichlorofluoromethane	0.0418	0.0010	mg/L	ND	104	60-130			
1,3,5-Trimethylbenzene	0.0336	0.0005	mg/L	ND	84.0	60-130			
Vinyl chloride	0.0451	0.0005	mg/L	ND	113	50-140			
m,p-Xylenes	0.0742	0.0005	mg/L	ND	92.7	60-130			
o-Xylene	0.0387	0.0005	mg/L	ND	96.8	60-130			
Surrogate: 4-Bromofluorobenzene	0.0653		%		81.6	50-140			
Surrogate: Dibromofluoromethane	0.0921		%		115	50-140			
Surrogate: Toluene-d8	0.0737		%		92.2	50-140			

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Qualifier Notes:**Login Qualifiers :**

Sample - One or more parameter received or added past hold time. Directed by client to proceed with analysis - E.coli

Applies to Samples: MW103-25, MW103-25 (Filtered), MW103 (Filtered)

Sample Qualifiers :

- 1: Increased detection limit was a consequence of dilution/reduced analysis volume due to high background bacteria levels / sample matrix limitations.
Applies to Samples: MW103-25, MW103
- 2: Confluent background/interfering flora: May interfere with target colony growth and the analysts' ability to count discrete colonies. The target colonies may be under-represented.
Applies to Samples: MW103-25, MW103
- 3: This analysis was conducted after the accepted holding time had been exceeded.
Applies to Samples: MW103-25
- 6: Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
Applies to Samples: MW103-25, MW103

QC Qualifiers:

- BAC06 Increased detection limit was a consequence of dilution/reduced analysis volume due to high background bacteria levels / sample matrix limitations.
- BAC12 Confluent background/interfering flora: May interfere with target colony growth and the analysts' ability to count discrete colonies. The target colonies may be under-represented.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Sample Data Revisions:

None



Order #: 2619289

Certificate of Analysis

Report Date: 12-May-2026

Client: Cambium Inc. (Ottawa)

Order Date: 5-May-2026

Client PO:

Project Description: 24896.001

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



Hydrogeological Assessment – Block 21, 200 Codd's Road, Ottawa
Wateridge Lifestyles Ltd. and Canada Lands Corporation
Cambium Reference: CAM24896.001
July 16, 2026

Appendix F

Dewatering Calculations

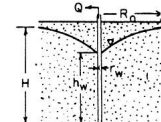
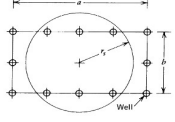
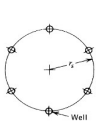


DEWATERING CALCULATIONS - PHASE 1 BUILDING

Modified Dupuit-Forchheimer Equation: unconfined flow into a rectangular excavation.
Calculations assume no flow boundary at aquifer base

Excavation Area		Initial Depth to Groundwater	Target Depth to Groundwater	Base of Aquifer	Excavation Length (a)	Excavation Width (b)	Hydraulic Conductivity (K)	s	R	$r_s = \sqrt{(ab/\pi)}$	R _o	ln(R _o /r _s)	H	h _w = H-s	r _s	Q _{total}		
		masl	masl	masl	m	m	m/s	m	m	m	m	-	m	m	m	m ³ /s	L/s	L/d
Rectangular excavation with dimensions axb	Maximum K	88.93	85.8	84.16	100	30	4.60E-07	3.18	6.47	30.90	37.37	0.19	4.77	1.59	30.90	0.000154	0.15	13,283
	Geomean K	88.93	85.8	84.16	100	30	3.37E-07	3.18	5.54	30.90	36.44	0.16	4.77	1.59	30.90	0.000130	0.13	11,222
	Minimum K	88.93	85.8	84.16	100	30	2.69E-07	3.18	4.95	30.90	35.85	0.15	4.77	1.59	30.90	0.000115	0.12	9,943

s = target drawdown (initial - target depth to groundwater) (m)
R_o = radius of influence of construction dewatering/pumping (m)
r_s = equivalent single well radius (m)
H = Initial hydraulic head in aquifer (m)
h = hydraulic head at radius of well (m)
Q = construction dewatering rate (m³/s)
*For base of aquifer, calculated using target depth to groundwater plus 50% of target drawdown (s).



Radial flow, water table aquifer

$$r_s = \sqrt{\frac{ab}{\pi}}$$

$$Q_w = \frac{\pi K(H^2 - h_w^2)}{\ln R_o / r_w}$$

(from Table 6.1, pg 67)

*Use $r_w = r_s$ for rectangular excavations

R = 3000*s*sqrt(K)
R_o = R, if R > r_s
R_o = R + r_s, if R <= r_s

Source: Cashman and Preene. "Groundwater Lowering in Construction." (2013)

Source: Powers, J. Patrick, et al. "Construction dewatering and groundwater control." (2007)



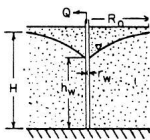
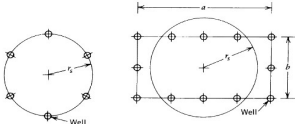
DEWATERING CALCULATIONS - PHASE 2 BUILDING

Modified Dupuit-Forchheimer Equation: unconfined flow into a rectangular excavation.
Calculations assume no flow boundary at aquifer base

82.38

Excavation Area		Initial Depth to Groundwater	Target Depth to Groundwater	Base of Aquifer	Excavation Length (a)	Excavation Width (b)	Hydraulic Conductivity (K)	s	R	$r_s = \sqrt{(ab/\pi)}$	R _o	ln(R _o /r _s)	H	h _w = H-s	r _s	Q _{total}		
		masl	masl	masl	m	m	m/s	m	m	m	m	-	m	m	m	m ³ /s	L/s	L/d
Rectangular excavation with dimensions axb	Maximum K	88.93	84.6	82.38	100	22	4.60E-07	4.37	8.89	26.46	35.35	0.29	6.56	2.19	26.46	0.000191	0.19	16,462
	Geomean K	88.93	84.6	82.38	100	22	3.37E-07	4.37	7.61	26.46	34.07	0.25	6.56	2.19	26.46	0.000160	0.16	13,821
	Minimum K	88.93	84.6	82.38	100	22	2.69E-07	4.37	6.80	26.46	33.26	0.23	6.56	2.19	26.46	0.000141	0.14	12,195

s = target drawdown (initial - target depth to groundwater) (m)
R_o = radius of influence of construction dewatering/pumping (m)
r_s = equivalent single well radius (m)
H = Initial hydraulic head in aquifer (m)
h = hydraulic head at radius of well (m)
Q = construction dewatering rate (m³/s)
*For base of aquifer, calculated using target depth to groundwater plus 50% of target drawdown (s).



$$r_s = \sqrt{\frac{ab}{\pi}}$$

$$Q_w = \frac{\pi K(H^2 - h_w^2)}{\ln R_o / r_w}$$

(from Table 6.1, pg 67)

*Use $r_w = r_s$ for rectangular excavations

R = 3000*s*sqrt(K)
R_o = R, if R > r_s
R_o = R + r_s, if R <= r_s

Source: Cashman and Preene, "Groundwater Lowering in Construction." (2013)

Source: Powers, J. Patrick, et al. "Construction dewatering and groundwater control." (2007)



DEWATERING CALCULATIONS - PHASE 3 BUILDING

Modified Dupuit-Forchheimer Equation: unconfined flow into a rectangular excavation.
Calculations assume no flow boundary at aquifer base

Excavation Area		Initial Depth to Groundwater	Target Depth to Groundwater	Base of Aquifer	Excavation Length (a)	Excavation Width (b)	Hydraulic Conductivity (K)	s	R	$r_s = \sqrt{(ab/\pi)}$	R _o	ln(R _o /r _s)	H	h _w = H-s	r _s	Q _{total}		
		masl	masl	masl	m	m	m/s	m	m	m	m	-	m	m	m	m ³ /s	L/s	L/d
Rectangular excavation with dimensions axb	Maximum K	88.93	84.6	82.38	33	33	4.60E-07	4.37	8.89	18.62	27.51	0.39	6.56	2.19	18.62	0.000141	0.14	12,215
	Geomean K	88.93	84.6	82.38	33	33	3.37E-07	4.37	7.61	18.62	26.23	0.34	6.56	2.19	18.62	0.000118	0.12	10,194
	Minimum K	88.93	84.6	82.38	33	33	2.69E-07	4.37	6.80	18.62	25.42	0.31	6.56	2.19	18.62	0.000104	0.10	8,958

s = target drawdown (initial - target depth to groundwater) (m)
R_o = radius of influence of construction dewatering/pumping (m)
r_s = equivalent single well radius (m)
H = Initial hydraulic head in aquifer (m)
h = hydraulic head at radius of well (m)
Q = construction dewatering rate (m³/s)
*For base of aquifer, calculated using target depth to groundwater plus 50% of target drawdown (s).

$$r_s = \sqrt{\frac{ab}{\pi}}$$

Radial flow, water table aquifer

$$Q_w = \frac{\pi K(H^2 - h_w^2)}{\ln R_o / r_w}$$

(from Table 6.1, pg 67)

*Use r_w = r_s for rectangular excavations

R = 3000*s*sqrt(K)
R_o = R, if R > r_s
R_o = R + r_s, if R <= r_s

Source: Cashman and Preene. "Groundwater Lowering in Construction." (2013)

Source: Powers, J. Patrick, et al. "Construction dewatering and groundwater control." (2007)