



May 29, 2024

Sunbelt Rentals Inc.
2489 Sheffield Road
Ottawa, Ontario
K1B 3V6

**RE: SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
PROPOSED COMMERCIAL DEVELOPMENT
151-159 WESCAR LANE
CITY OF OTTAWA, ONTARIO**

Dear Sirs:

At the request of the client, Kollaard Associates Inc. completed a groundwater monitoring program from a standpipe installed in a previous borehole put down at the site. The purpose of the groundwater monitoring program was to measure the water level from a standpipe installed in a previous borehole (BH9) as part of the geotechnical investigation to capture the “spring freshet”.

A summary of the groundwater levels measured in the standpipe are as follows:

Groundwater Levels at BH9

| Date | Water Depth below g/s (metres) | Water Elevation below g/s (metres) | Ground Surface Elevation BH9 |
|---------------|--------------------------------|------------------------------------|------------------------------|
| March 1, 2024 | 0.70 | 120.28 | 120.98m |
| April 1, 2024 | 0.87 | 120.11 | |
| **May 1, 2024 | Instrument error | - | |
| May 24, 2024 | 0.74 | 120.24 | |
| May 27, 2024 | 0.78 | 120.20 | |

NOTE: Instrument error occurred during May 1, 2024 site visit causing false reading.

Additional Augerholes

In addition to the groundwater monitoring program at borehole BH9, Kollaard Associates Inc. completed two site visits on May 24 and 27, 2024 at 151-159 Wescar Lane, Ottawa, Ontario. The purpose of the site visits was to put down a series of additional hand augerholes in the area of the proposed storm pond and nearby in order to verify recent groundwater levels obtained from the above noted standpipe. Two augerholes were put down on May 24, 2027 and four others were put down on May 27, 2024.

The location of the hand augerholes are shown on the attached Site Plan, Figure 2. The results of the subsurface conditions encountered in the augerholes are provided in the attached Table I,



Record of Augerholes.

Subsurface Conditions

In general, the soil conditions encountered at the augerhole locations consisted of sandy fill materials overlying clayey fill materials followed by native silt. These conditions are similar to what was previously reported in the geotechnical report. A layer of coarse sand fill was encountered at augerholes AH3 and AH4.

The groundwater was measured in the augerholes as follows:

| Augerhole | Date | Water Depth below g/s (metres) | Water Elevation below g/s (metres) | Ground Surface Elevation (metres) |
|-----------|--------------|--------------------------------|------------------------------------|-----------------------------------|
| AH1 | May 24, 2024 | 0.72 | 120.25 | 120.97 |
| AH1 | May 27, 2024 | 0.74 | 120.23 | 120.97 |
| AH2 | May 24, 2024 | N/A | No measurement | Refusal on Cobble |
| AH3 | May 27, 2024 | 0.5 | 119.94 | 120.44 |
| AH4 | May 27, 2024 | 0.74 | 120.24 | 121.04 |
| AH5 | May 27, 2024 | 0.78 | 120.18 | 120.98 |
| AH6 | May 27, 2024 | 0.78 | 120.33 | 121.33 |

We trust that this report provides sufficient information for your present purposes. If you have any questions concerning this information or if we can be of further assistance to you, please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.

Dean Tataryn, B.E.S., EP.

Attachments: Table 1 – Record of Augerholes
 Site Plan, Figure 1 – Augerhole Locations



TABLE I
RECORD OF AUGERHOLES
PROPOSED COMMERCIAL DEVELOPMENT
151-157 WESCAR LANE, CARP
CITY OF OTTAWA, ONTARIO

| TEST PIT NUMBER | DEPTH (METRES) | DESCRIPTION |
|---|----------------|--|
| AH1 (Elev. 120.97 m) May 24, 2024 | 0.00 – 0.20 | Red brown fine to medium sand (FILL) |
| | 0.20 – 0.60 | Grey brown silty clay, trace sand (FILL) |
| | 0.60 – 1.40 | Grey brown fine to medium sand (FILL) |
| | 1.40 – 1.50 | Grey brown SILT |
| | 1.50 | End of auger hole in SILT |
| Some groundwater encountered at about 0.72 metres below the existing ground surface, May 24, 2024. Groundwater measured in auger hole at about 0.74 metres below the existing ground surface, May 27, 2024. | | |
| AH2 (Elev. 120.93 m) May 24, 2024 | 0.00 – 0.15 | Red brown fine to medium sand (FILL) |
| | 0.15 – 0.60 | Grey brown silty clay, trace sand (FILL) |
| | 0.60 – 0.80 | Grey brown fine to medium sand (FILL) |
| | 0.80 | Practical refusal on large cobble in FILL |
| Auger hole dry, May 24, 2024. | | |
| AH3 (Elev. 120.44 m) May 27, 2024 | 0.00 – 0.10 | Topsoil (FILL) |
| | 0.10 – 0.50 | Grey brown fine to medium sand (FILL) |
| | 0.50 – 0.60 | Grey brown fine to coarse sand, trace gravel (Probably FILL) |
| | 0.60 | End of auger hole in FILL |

Some groundwater encountered at about 0.5 metres below the existing ground surface, May 27, 2024.



TABLE I (Continued)

| TEST PIT NUMBER | DEPTH (METRES) | DESCRIPTION |
|--------------------------------------|-------------------|--|
| AH4 (Elev. 121.04 m) May 27, 2024 | 0.00 – 0.10 | Topsoil (FILL) |
| | 0.10 – 0.20 | Red brown fine to medium sand (FILL) |
| | 0.20 – 0.80 | Grey brown silty clay, trace sand (FILL) |
| | 0.80 – 0.90 | Grey brown fine to coarse sand, trace gravel (Probably FILL) |
| | 0.90 | End of test pit in FILL |


Some groundwater encountered at about 0.8 metres below the existing ground surface, May 27, 2024.

| | | |
|--------------------------------------|-------------|--|
| AH5 (Elev. 120.98 m) May 27, 2024 | 0.00 – 0.20 | Red brown fine to medium sand (FILL) |
| | 0.20 – 0.80 | Grey brown silty clay, trace sand (FILL) |
| | 0.80 – 1.00 | Grey brown fine to medium sand (FILL) |
| | 1.00 | End of auger hole in FILL |

Some groundwater encountered at about 0.8 metres below the existing ground surface, May 27, 2024.

| | | |
|--------------------------------------|-------------|--------------------------------------|
| AH6 (Elev. 121.33 m) May 27, 2024 | 0.00 – 0.20 | TOPSOIL |
| | 0.20 – 0.30 | Red brown fine to medium SAND |
| | 0.30 – 1.20 | Grey brown SILTY CLAY, trace sand |
| | 1.20 – 1.50 | Grey fine to medium SAND, trace silt |
| | 0.80 | End of auger hole in SAND |


Some groundwater encountered at about 1.0 metres below the existing ground surface, May 27, 2024.

LEGEND:
 APPROXIMATE AUGERHOLE LOCATION

REFERENCE: PLAN SUPPLIED BY
SUNBELT RENTALS INC

SPECIAL NOTE: THIS DRAWING TO
BE READ IN CONJUNCTION WITH
THE ACCOMPANYING REPORT.

| REV. | NAME | DATE | DESCRIPTION |
|------|------|------|-------------|
| | | | |
| | | | |

 **Kollaard Associates**
Engineers

PO, BOX 189, 210 PRESCOTT ST (613) 860-0923
KEMPTVILLE ONTARIO info@kollaard.ca
KOG 1J0 FAX (613) 258-0475
http://www.kollaard.ca

CLIENT:
SUNBELT RENTALS INC.

PROJECT:
AUGERHOLE LOCATIONS FOR
GROUNDWATER LEVELS FOR
PROPOSED COMMERCIAL DEVELOPMENT

LOCATION:
151-159 WESCAR LANE
OTTAWA, ONTARIO

DESIGNED BY:
-- DATE:
MAY 29, 2024

DRAWN BY:
DT SCALE:
N.T.S

KOLLAARD FILE NUMBER:
230403

