ORE
Oakridge Environmental Limited
Environmental and Hydrogeological Services

March 18, 2026

Rick Wannop Developments (1064021 Ontario Limited)
47 Katherine Crescent
Stouffville, Ontario
L4A 1K4

Attention: **Richard (Rick) Wannop**, Owner

Re: Addendum to Preliminary Hydrogeological Study
Proposed Residential and Industrial/Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region
ORE File No. 25-3614

# 1.0 Introduction

Oakridge Environmental Ltd. (ORE) is pleased to present this addendum to our February 2026 *Preliminary Hydrogeological Study* report, referenced below:

> *Preliminary Hydrogeological Study, Proposed Residential and Industrial/Commercial Development, 1520, 1540 and 1580 Reach Street, Port Perry, Township of Scugog, Durham Region* (February 12, 2026).

As design details for the two (2) stormwater management SWM ponds that will service the proposed development were not available prior to preparation of our hydrogeological study report, the purpose of this addendum is to present a preliminary assessment of groundwater conditions associated with the SWM pond designs, as provided by Sabourin, Kimble & Associates Ltd. (SKA). A copy of the preliminary SWM pond designs has been included in Attachment #1 to this addendum.

As presented in Attachment #1 and illustrated on Figure A (also attached), one (1) of the SWM ponds is to be constructed in the northeastern quadrant of the proposed development (referred to as Pond A) and another SWM pond is to be constructed in the northwestern quadrant of the proposed development (referred to as Pond B).

Based on the proposed depths of the SWM ponds, it is expected that both ponds will intersect the shallow aquifer (water table). As a result, this addendum provides a preliminary estimate of the groundwater inflows that could be expected based on the current design details.

# 2.0 Hydrogeology

## 2.1 Pond A

As provided by Attachment #1, the centre of the deep pool in Pond A is anticipated to be constructed to a depth of about 8 m below the existing grade. This location roughly corresponds to the borehole/monitoring well referred to as BH25-5 in our above-referenced preliminary hydrogeological report. As indicated by the field borehole log for BH25-5 (Attachment #2), the full depth of the borehole intersected Newmarket Till, with the upper 0.76 m appearing to be comprised of sandy (weathered) till. Saturated soils (i.e., the shallow aquifer materials) were encountered at a depth of 4 m below the existing grade, however, a very moist sand seam was also observed at 1.83 m. As the aquifer materials are partially confined, it is likely that the sand seam is hydraulically connected to the main aquifer materials and can become saturated (i.e., transmit groundwater), especially in the spring, when water levels are typically at their maxima. The Newmarket Till was observed to become dense and stiff below 6.1 m, continuing to the bottom of the borehole at 8.23 m, likely occurring near the lower limit of the shallow aquifer materials.

Due to the slight confining pressures overtop of the aquifer materials, the water level in the well was measured to be approximately 1 m below the existing grade in December 2025, occurring approximately 3 m above the observed saturated soils. Water level monitoring at BH25-5 is on-going to establish the typical seasonal high groundwater level in that location.

Subsequent hydraulic testing of the monitoring well revealed a mean estimated hydraulic conductivity of $4.16 \times 10^{-4}$ cm/s. As the hydraulic conductivity was determined from testing a single well, this estimate should be considered preliminary and possibly an under-estimate.

Additionally, a manual (hand) auger borehole advanced in the northeastern portion of the SWM pond's expected footprint (HA25-15) suggests at least a portion of the area may contain glaciolacustrine sediments overtop of the till, which may affect the hydraulic properties in this area.

## 2.2 Pond B

Similar to Pond A above, the centre of Pond B is proposed to occur proximal to the borehole referred to as BH25-9, as in our February 2026 preliminary report. As presented by the field borehole log, 1.83 m of glaciolacustrine sand was intersected directly below the topsoil at this location. The bottom of the sand was observed to be moist but not saturated during the drilling activities in November 2025. Glaciolacustrine silt and clay occurred below the sand for the full depth of the bore (6.71 m). The silt and clay was observed to be fully saturated at a depth of about 4.57 m and appeared soft (lacked cohesion). Due to the lack of cohesion, it is expected that any sand seams within the saturated materials may not have been recoverable/observable during the drilling.

As there were four (4) pre-existing monitoring wells installed in the northwest corner of the subject property, one (1) of the shallow aquifer wells (referred to as MW-1) has been utilized to assess the water table conditions in the area of Pond B. As presented in our above-referenced report, the water level in MW-1 was measured to be 0.09 m below grade in December 2025 and there was evidence that the water table comes up to surface in this area of the site. Similar to BH25-5 above, water level monitoring at MW-1 is ongoing to establish the typical seasonal high groundwater level in that location.

Based on hydraulic testing performed on MW-1, the estimated mean hydraulic conductivity of the glaciolacustrine materials in this location is expected to be on the order of $5.15 \times 10^{-4}$ cm/s. Similar to above, this estimate is considered preliminary and additional hydrogeological analysis in this location will be required to inform the detailed design of Pond B.

## 2.3 Preliminary SWM Pond Groundwater Inflows

Utilizing the methodology presented in Section 4.1.3 of our *Preliminary Hydrogeological Study* report, the Powers, et al. (2007) equation can be adapted to the dimensions of the SWM ponds. The reader is referred to our February 2026 report for additional information regarding the methodology used for the following estimates. Based on the depth of the ponds, the elevated water table condition in both locations and for the purposes of this preliminary assessment, it has been assumed that the full thickness of the aquifer occurs from the measured water level to the assumed depth of the aquifer materials, to yield an assumed aquifer thickness of about 10 m.

| Pond | Maximum Depth Below Existing Grade (m) | Permanent Pool Elevation (masl) | Drawdown (m) | Estimated Flow ($m^3$/day) |
|---|---|---|---|---|
| A | 8 | 262.5 | 5 | 284.9 |
| B | 5 | 256.25 | 2.25 | 387.3 |

There are many assumptions included in the estimates presented above. As such, the estimated flows are intended for preliminary design considerations and will need to be refined with additional data from the SWM pond areas to inform detailed design requirements. Similarly, additional hydrogeological data will be required to assess the use of subdrains (if required) and any short-term and/or long-term permitting requirements (e.g., Permit to Take Water/Environmental Activity and Sector Registry).

It is also important to recognize that the amount of dewatering (as estimated above) will ultimately be dependent on the permanent pool elevation of the SWM ponds. Should it be feasible to set the permanent pool at an elevation that is closer to the static water level in the nearby wells, that would minimize the amount of permanent dewatering required and could help to infiltrate some of the runoff.

# 3.0 Discussion

As provided in the *Preliminary Geotechnical Investigation Report* prepared by Redstone Engineering Inc. (dated March 14, 2026), it was recommended that each of the SWM ponds be clay lined, typically intended to protect an underlying aquifer that is otherwise "off-line" from the SWM pond. As SWM flows can carry potential contaminants, including (but not limited to) road salt, these liners help to mitigate for potential water quality impacts to aquifers that could be utilized by neighbouring well owners. As the SWM ponds are proposed to be "on-line" with the shallow water table, a clay liner is unlikely to be feasible at either SWM pond location.

Similarly, as our February 2026 *Preliminary Hydrogeological Study* report had recommended that the SWM design attempt to maintain the existing local water balance, it may be preferable to allow the ponds to infiltrate and recharge the local aquifer. As a result, the detailed design of the SWM ponds may require input from the hydrogeologist, geotechnical engineer and stormwater engineer to determine the best ("balanced") approach to treating stormwater runoff flows while protecting the underlying aquifer and infiltrating as much runoff as possible.

# 4.0 Closure

We trust that the preceding is sufficient for preliminary design considerations. Please feel free to contact the undersigned should that be any additional questions or concerns.

Sincerely,
**Oakridge Environmental Ltd.**

Dan MacIntyre, BSc.
Project Manager, Hydrogeology

Brian R. King, P.Geo.
Principal

PROFESSIONAL GEOSCIENTIST
BRIAN R. KING
PRACTISING MEMBER
0396
ONTARIO

**Attachments:**
Figures
Attachment #1 - Preliminary SWM Pond Design
Attachment #2 - Copy of Field Borehole Logs

cc: file

# Figures

661750 662000 662250 662500 662750 663000 663250

4886000 4885750 4885500 4885250 4885000

N

REACH ST

N PORT RD

TAYLOR BLVD

ROSEBOROUGH CRT

ROSEBOROUGH DR

ELMHURST ST

SHERRINGTON DR

6-1

11-1 W-5

HA25-15

BH25-5

Pond A

W-3 W-4

T-9

W-2

W-1

BH25-3

T-8

T-14

HA25-3

HA25-4

HA25-5

BH25-4

BH25-10

MW-3 MW-4 T-1 MW-1 BH25-9 HA25-14

Pond B

HA25-6

T-15

T-2

BH25-8

T-7

BH25-2

T-13

T-10

BH25-6

HA25-11

HA25-10

HA25-13

BH25-1

HA25-7

HA25-8

HA25-1

HA25-2

T-12

HA25-12

T-3

BH25-7

T-6

HA25-9

T-11

T-5

T-4

NAD 1983 UTM Zone 17N

**Addendum to Preliminary Hydrogeological Study**
**Proposed Residential and Industrial/Commercial Development**
**1520, 1540 and 1580 Reach Street, Port Perry**
Part of Lot 15 & 16, Concession 6 (Reach)
Township of Scugog, Durham Region

- Approximate Property Boundary
- Approximate Easement (Bell Canada)
- Stormwater Management Pond A (SKA)
- Stormwater Management Pond B (SKA)
- Domestic Bored/Dug Well
- Domestic Drilled Well
- Monitoring Well (2025)
- Monitoring Well (Historical)
- Mechanized Borehole (2025)
- Manual Auger Borehole (2025)
- Off-Site Borehole / Monitoring Well (RWDI)
- Test Pit (Historical)
- Watercourse (Ontario GeoHub)

Scale: 1:5,000

0 50 100 200 m

*Notes: Imagery and base map features provided by Ontario GeoHub (SCOOP, 2023)*

*Feature locations determined by differential GPS (+/- 3.0 m)*

*Base plan provided by Sabourin Kimble & Associates Ltd. (SKA, 2025)*

*Off-site borehole/monitoring well locations provided by Rown Williams Davies & Irwin Inc. (RWDI, 2025)*

*Optimized for printing by Oakridge Environmental Ltd.*

TITLE

**Physical Features**

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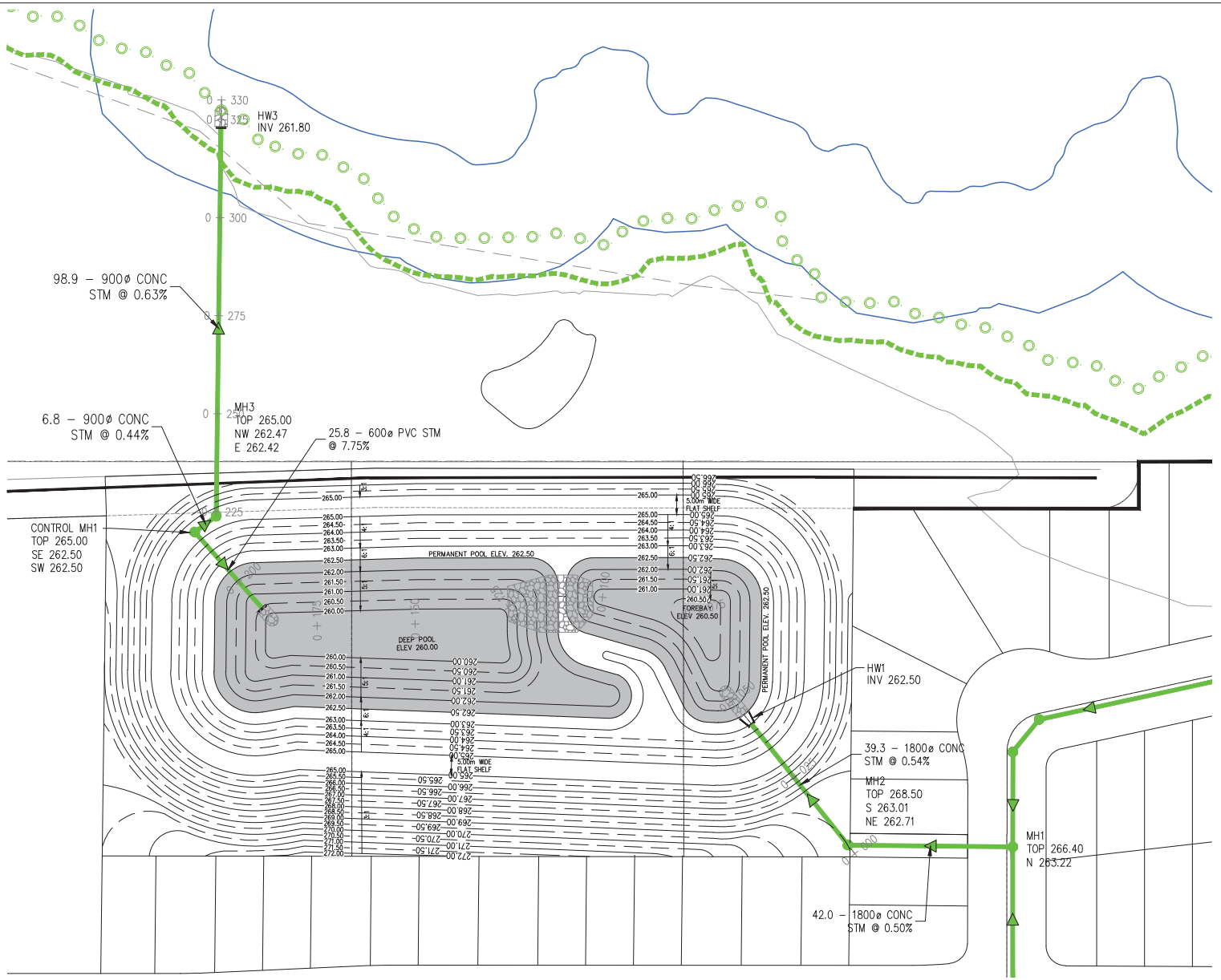
PROJECT # 25-3614

DATE March 2026

FIGURE **A**

# Attachment #1

Preliminary SWM Pond Design




LEGEND:

- REGIONAL FLOODLINE
- REGIONAL FLOODLINE SETBACK
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER

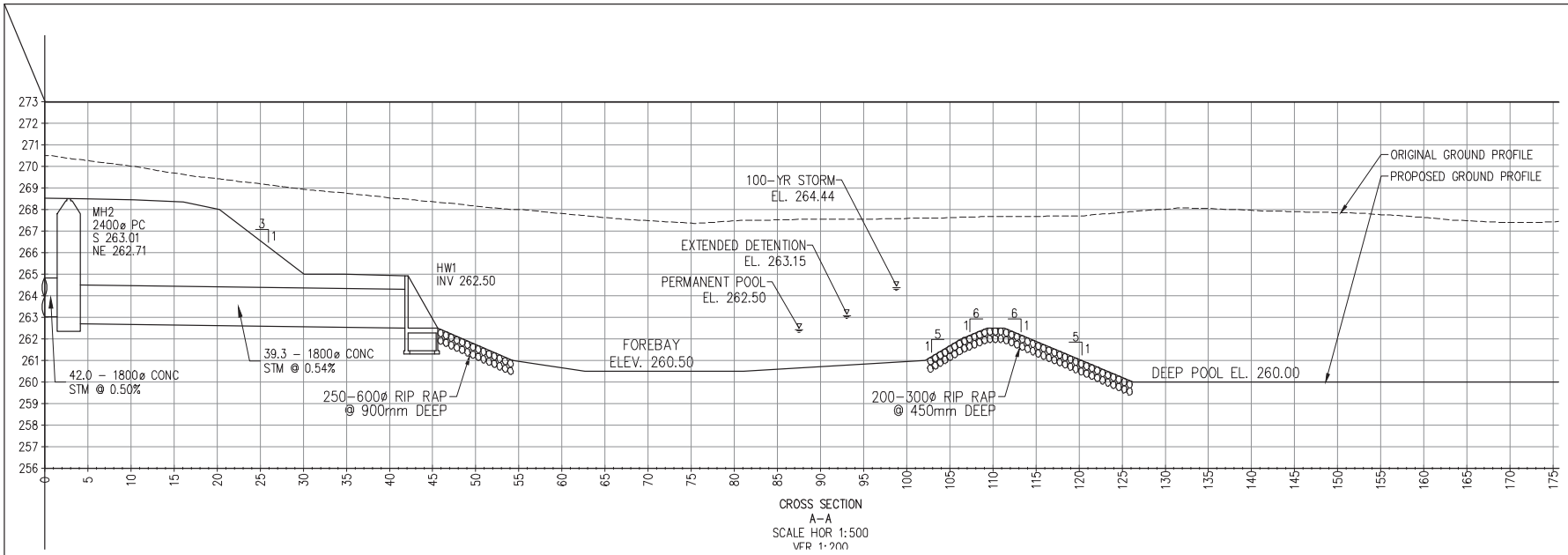
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# REACH STREET
# SWM POND 6A

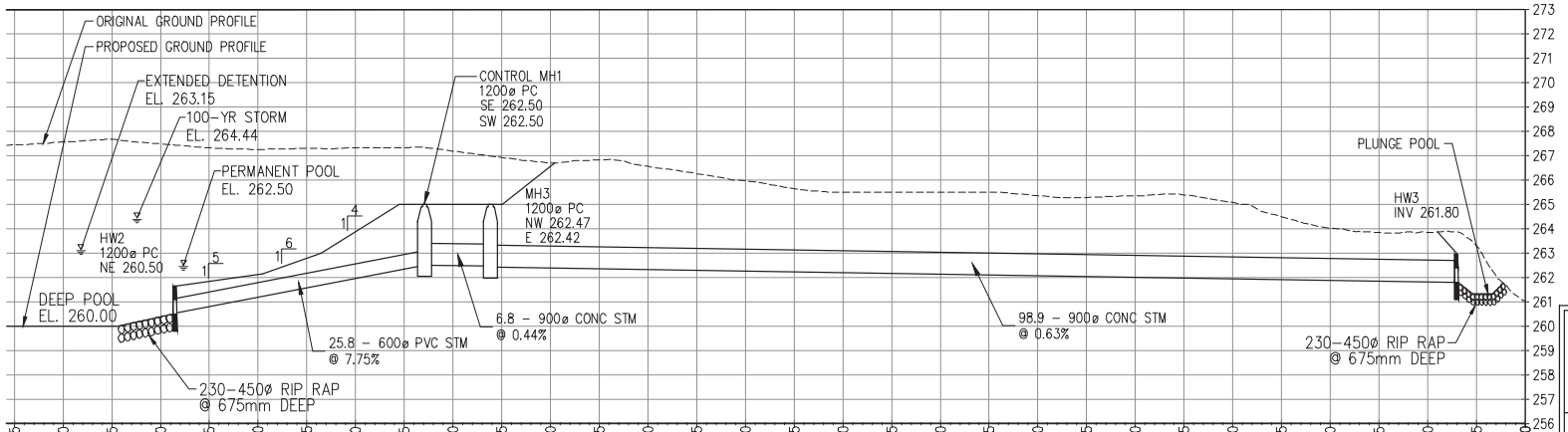
SABOURIN KIMBLE & ASSOCIATES LTD.
CONSULTING ENGINEERS

| PROJECT NUMBER | FIGURE NO. |
|---|---|
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CROSS SECTION
A-A
SCALE HOR 1:500
VER 1:200



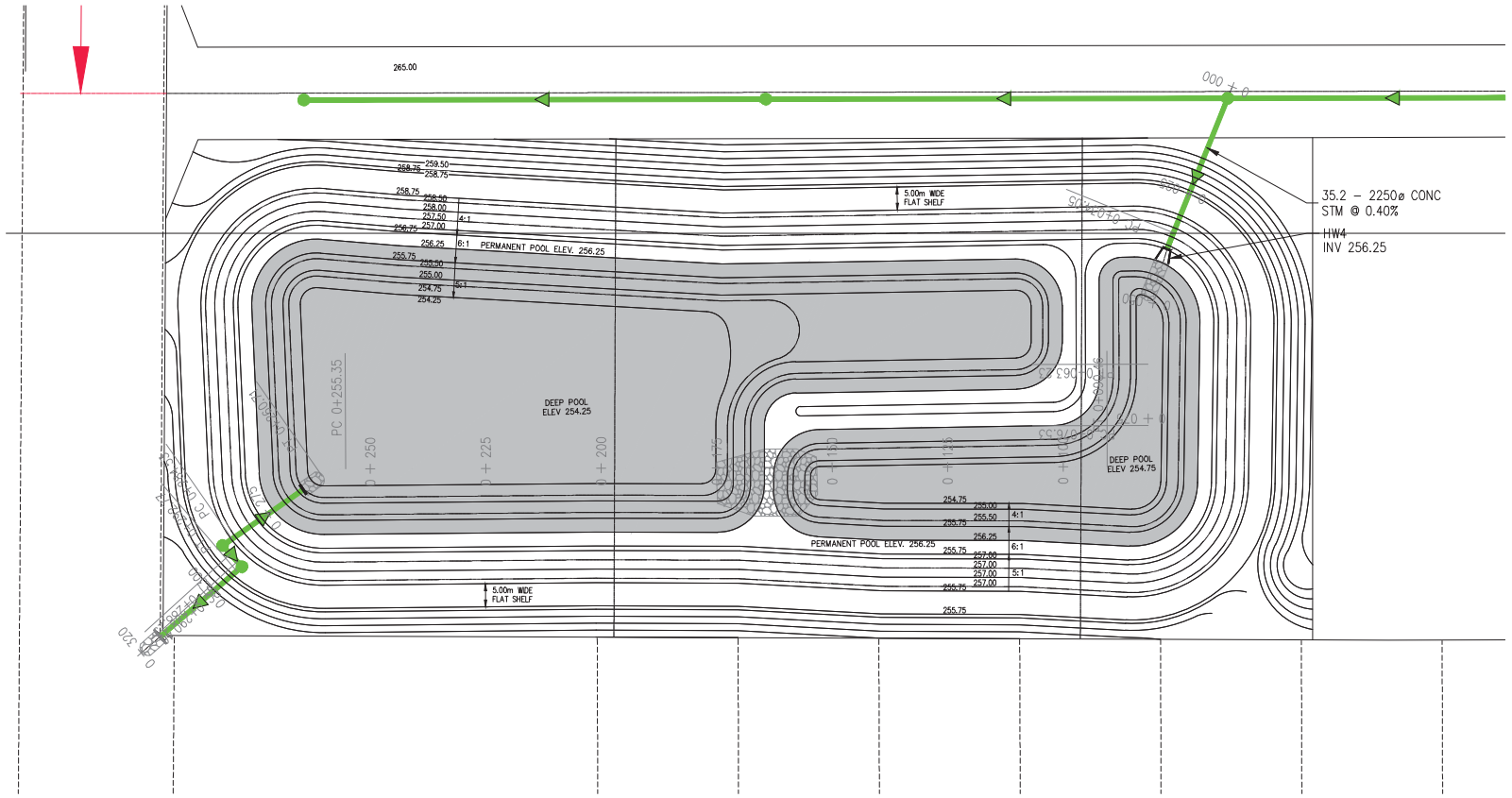

CROSS SECTION A-A
CONT.
SCALE HOR 1:500
VER 1:200

# REACH STREET SWM POND 6A SECTION

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CONSULTING ENGINEERS

| PROJECT NUMBER | FIGURE NO. |
|---|---|
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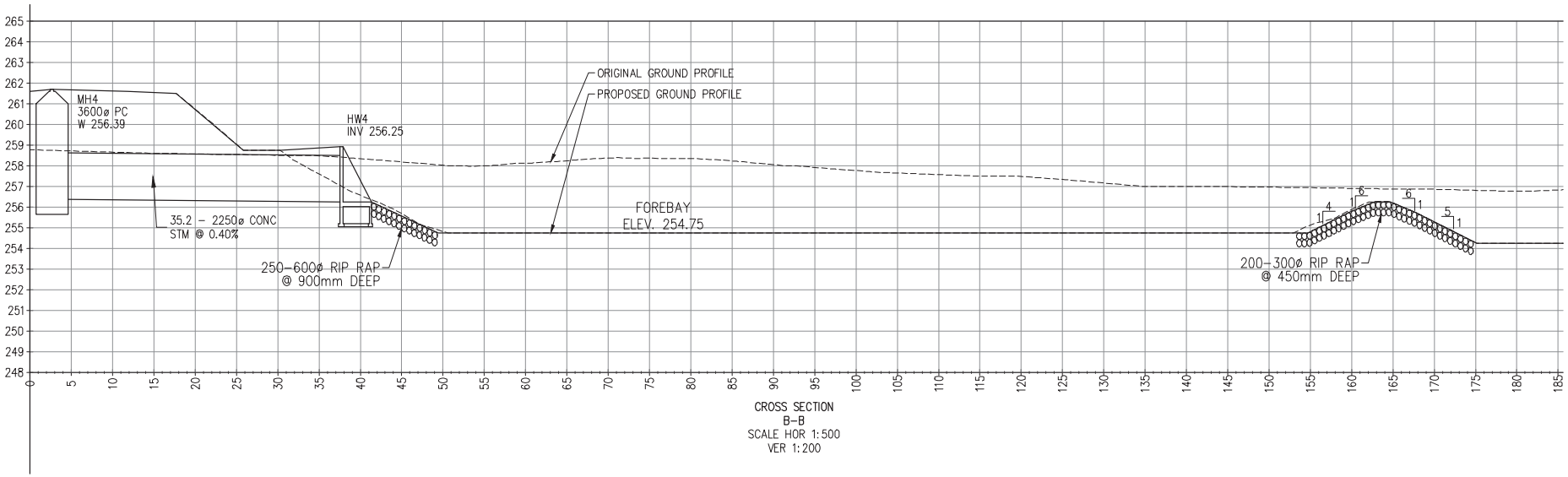



REACH STREET
SWM POND 6B

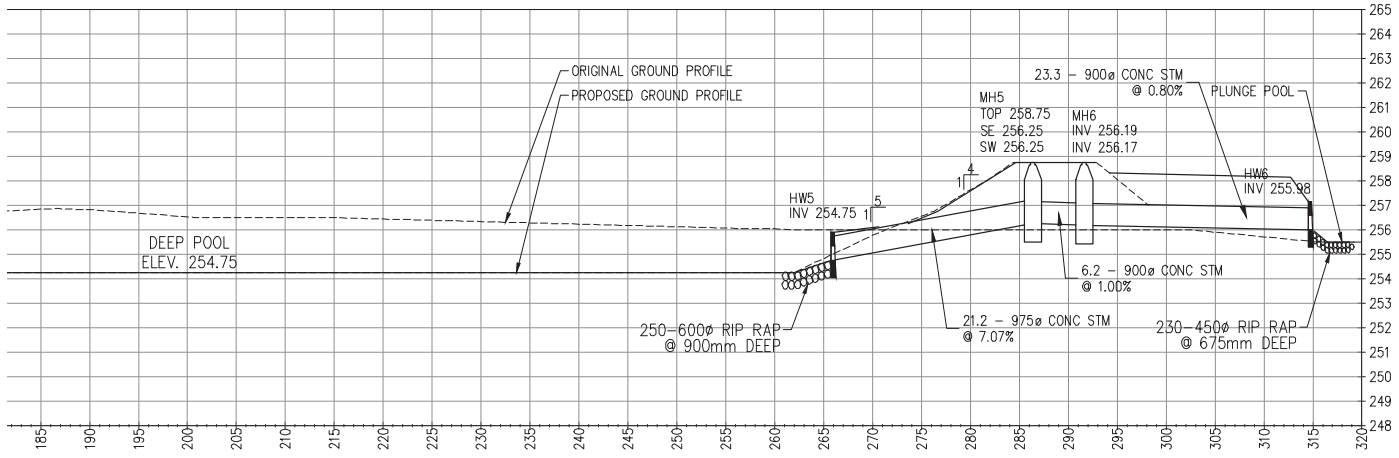
SABOURIN KIMBLE & ASSOCIATES LTD.
CONSULTING ENGINEERS

| PROJECT NUMBER | FIGURE NO. |
|---|---|
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CROSS SECTION
B–B
SCALE HOR 1:500
VER 1:200




CROSS SECTION B–B CONT.
SCALE HOR 1:500
VER 1:200

REACH STREET
SWM POND 6B
SECTION

SABOURIN KIMBLE & ASSOCIATES LTD.
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| PROJECT NUMBER | FIGURE NO. |
|---|---|
| 24: 478 | X |

CAD FILE: P:\24\478\Drawing Files\Phase 1\Figures\478 FSR Ultimate SWM Pond.dwg

# Attachment #2

Copy of Field Borehole Logs

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647 Neal Drive, Suite 3, Peterborough, Ontario. K9J 6X7
Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-1**

TOTAL DEPTH (m): **12.80 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662740, 4885369 | 281.63 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC & DB**

DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

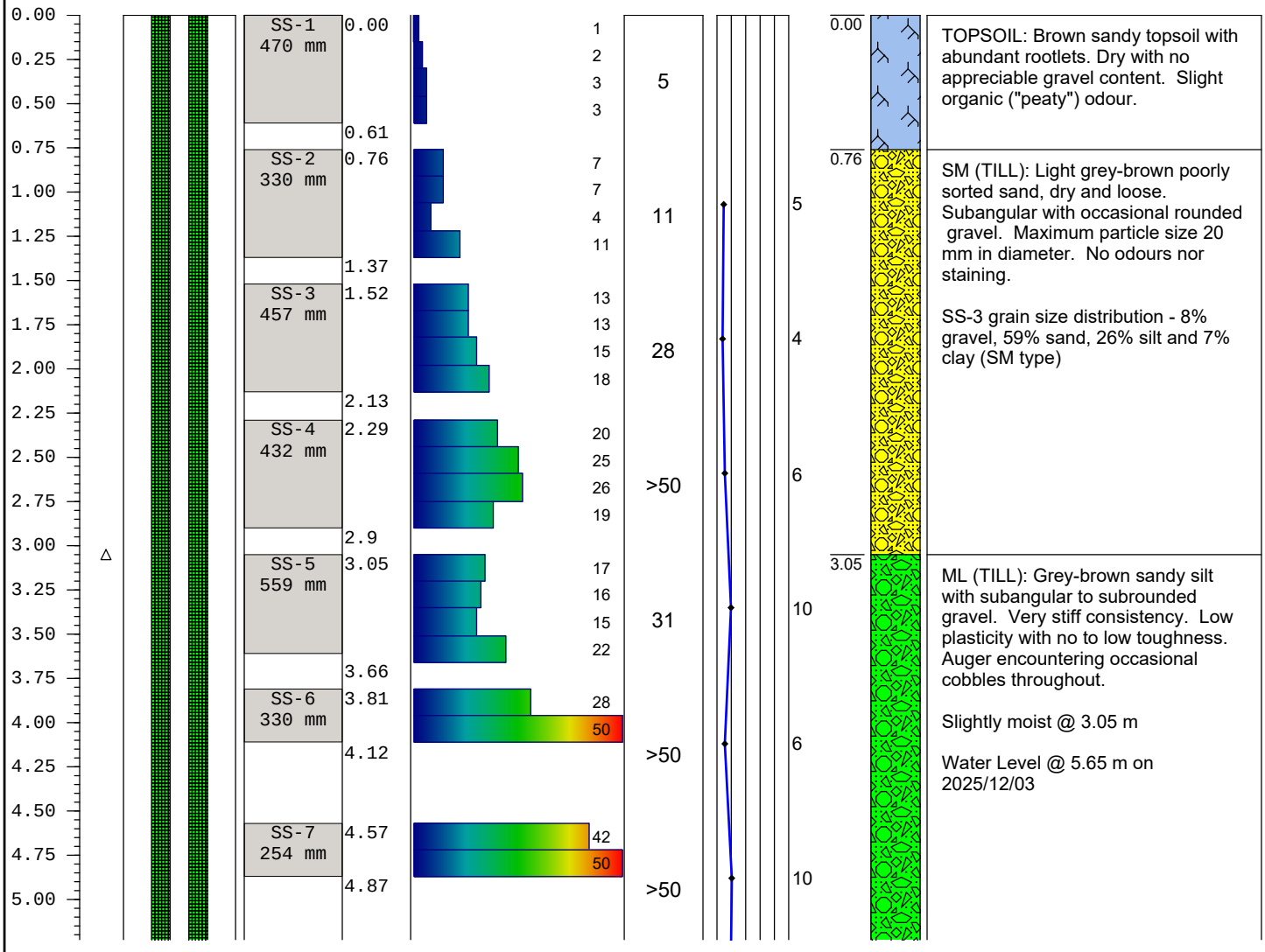
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG

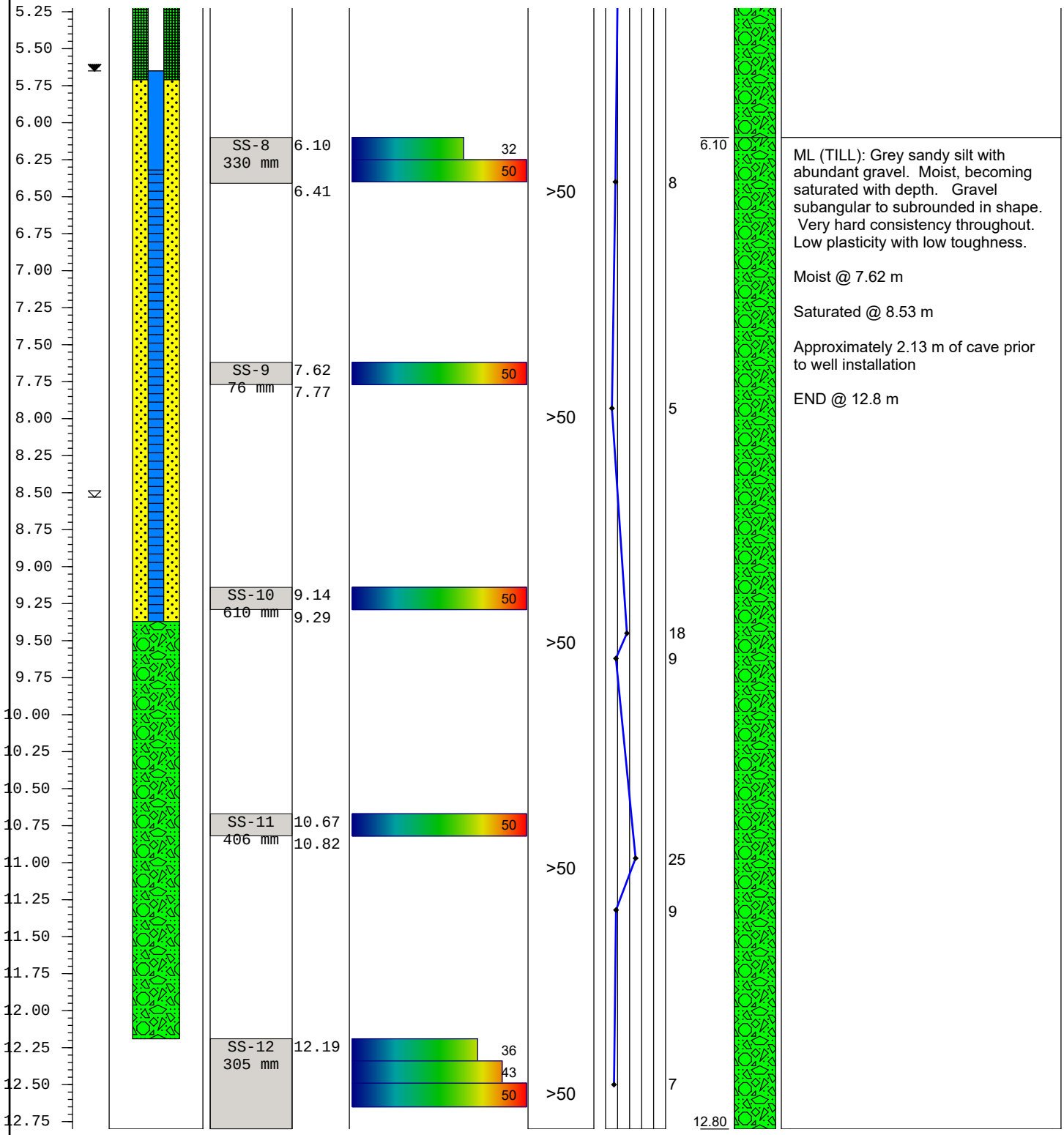



NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

# FIELD BOREHOLE LOG



| Depth | Piezometer Installation | Sample # Recovery | Blow Counts | N Value | Moisture % | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|




NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-2**

TOTAL DEPTH (m): **8.23 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662611,4885549 | 276.66 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 25/26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

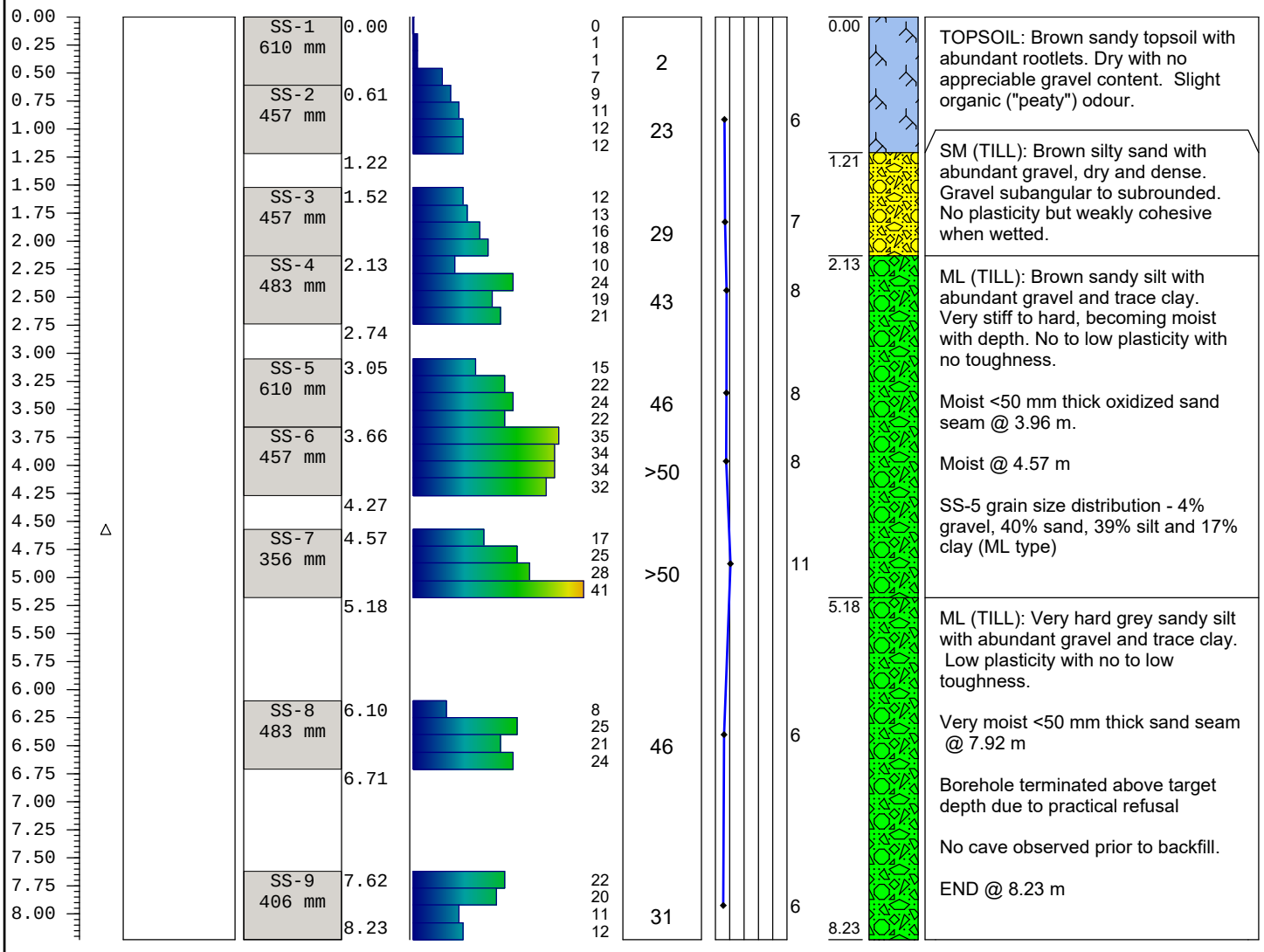
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-3**

TOTAL DEPTH (m): **8.23 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662492,4885790 | 270.63 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

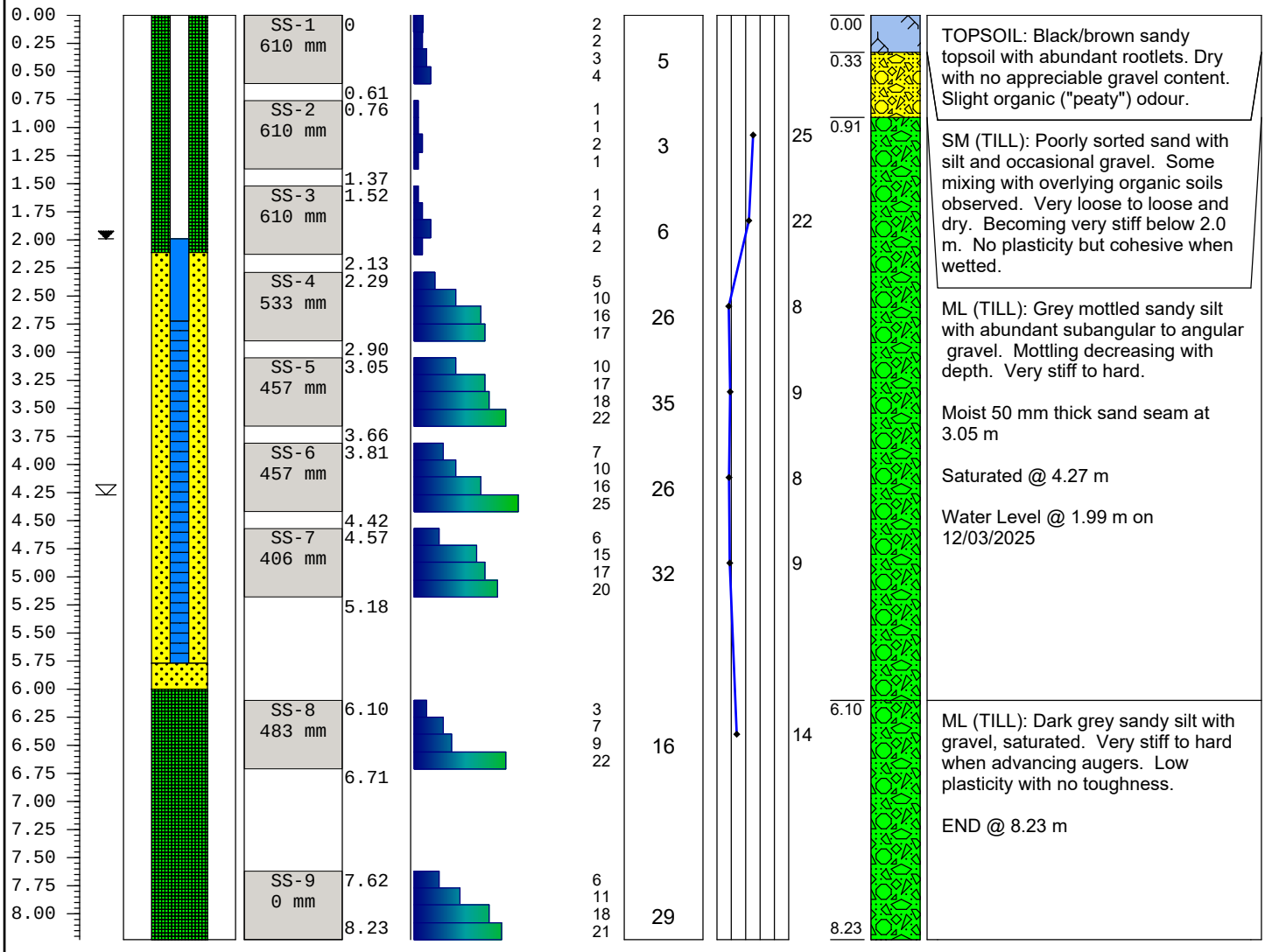
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-4**

TOTAL DEPTH (m): **2.74 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662492,4885790 | 272.35 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

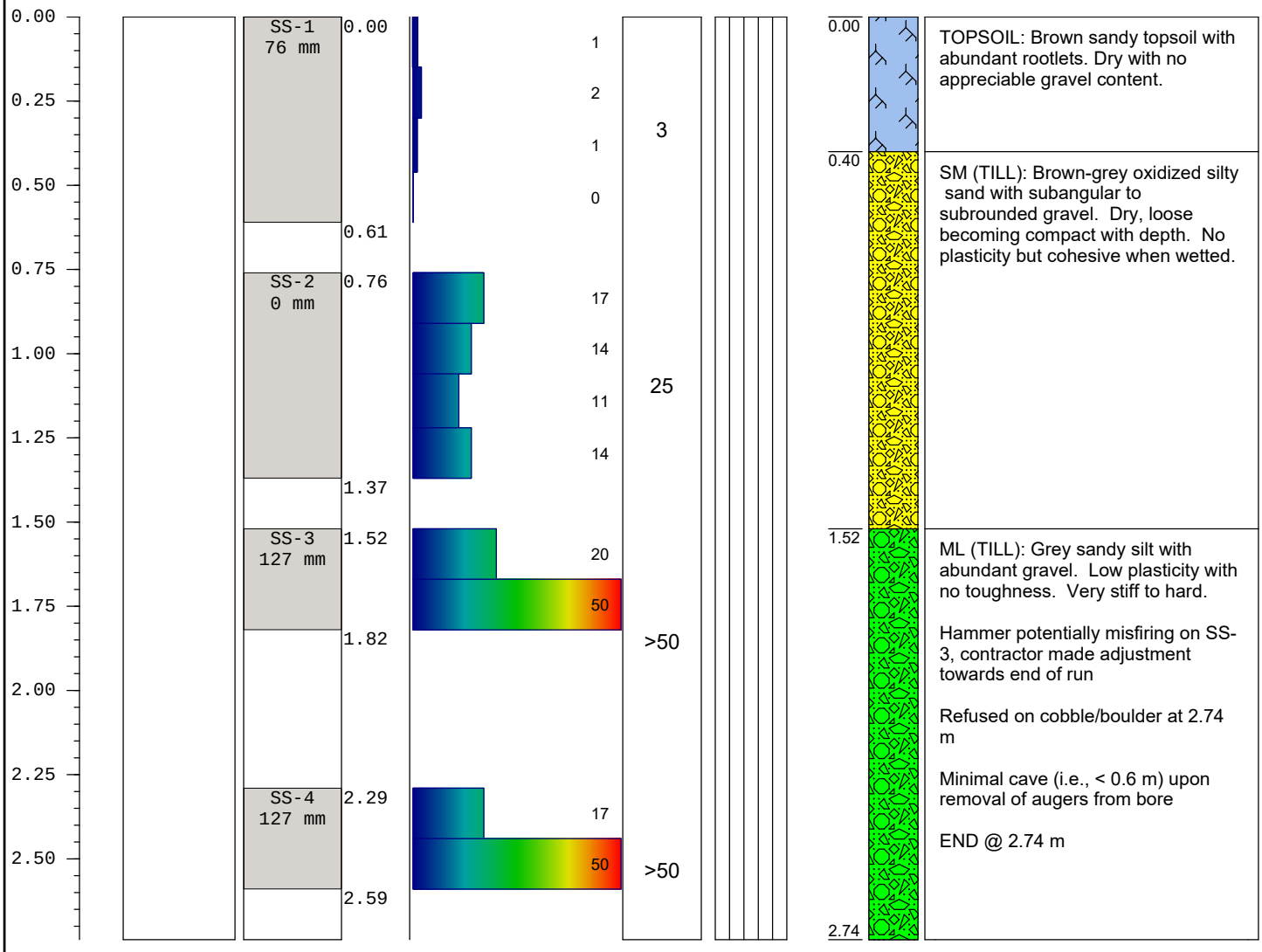
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius, 5 mm rain starting in afternoon. Moved to BH25-4a, 3 metres north of BH25-4 location.

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BOREHOLE NO. **BH25-4a**

TOTAL DEPTH (m): **8.23 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662815,4885707 | 272.35 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

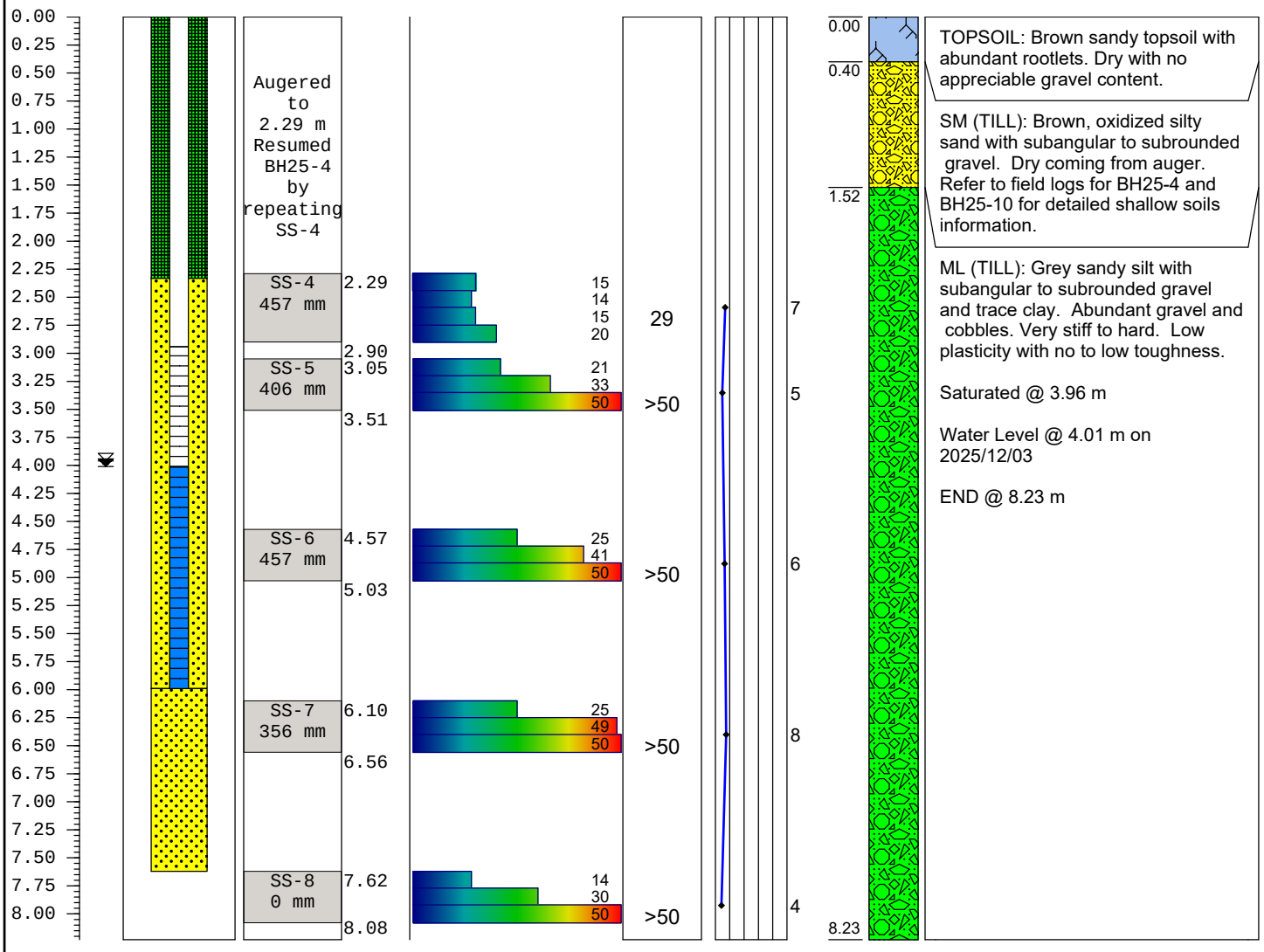
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius, 5mm rain starting in afternoon, refer to BH25-4 and BH25-10 for shallow soil lithology

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BOREHOLE NO. **BH25-5**

TOTAL DEPTH (m): **8.23 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662814,4885942 | 268.57 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

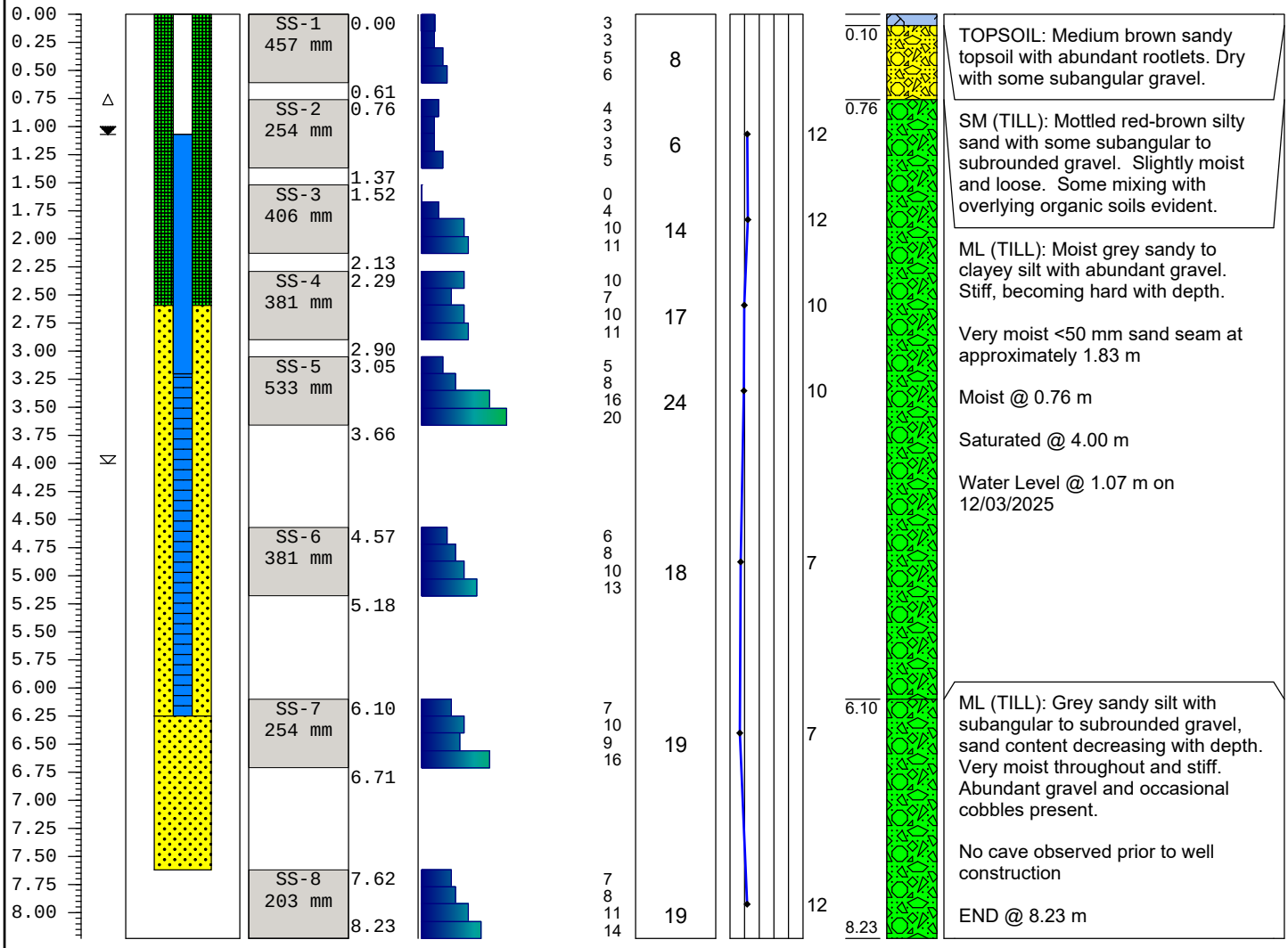
DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG

| Depth | Piezometer Installation | Sample # Recovery | Blow Counts | Field N Value | Moisture % | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|




TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with some subangular gravel.

SM (TILL): Mottled red-brown silty sand with some subangular to subrounded gravel. Slightly moist and loose. Some mixing with overlying organic soils evident.

ML (TILL): Moist grey sandy to clayey silt with abundant gravel. Stiff, becoming hard with depth.

Very moist <50 mm sand seam at approximately 1.83 m

Moist @ 0.76 m

Saturated @ 4.00 m

Water Level @ 1.07 m on 12/03/2025

ML (TILL): Grey sandy silt with subangular to subrounded gravel, sand content decreasing with depth. Very moist throughout and stiff. Abundant gravel and occasional cobbles present.

No cave observed prior to well construction

END @ 8.23 m

NOTES: 0 Celsius, windy with snow starting in the afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-6**

TOTAL DEPTH (m): **6.71 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662939,4885528 | 264.74 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

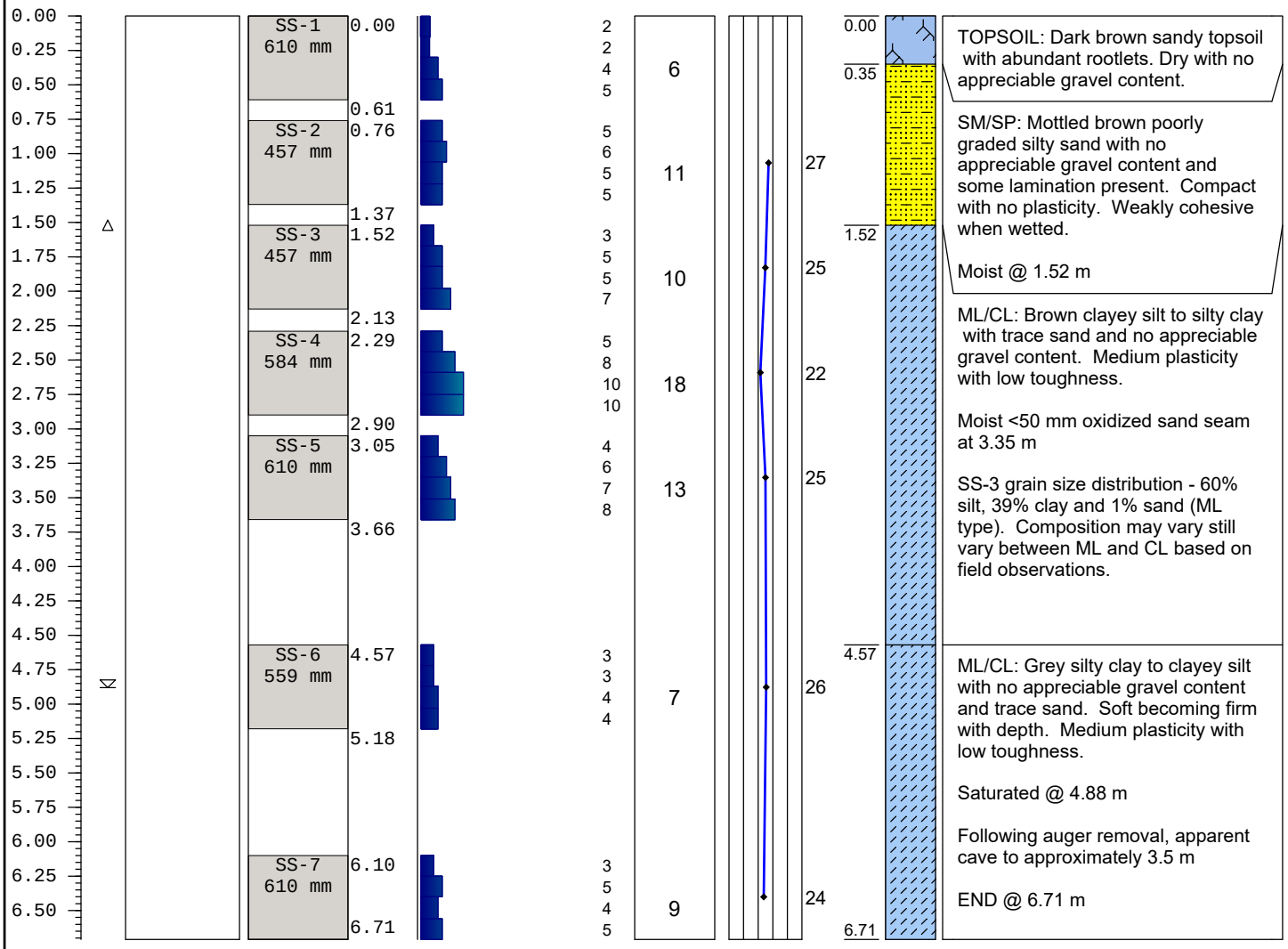
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Soild Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 0 Celsius, windy with snow starting in the afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-7**

TOTAL DEPTH (m): **6.71 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662258,4885271 | 260.00 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC & DM**

DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

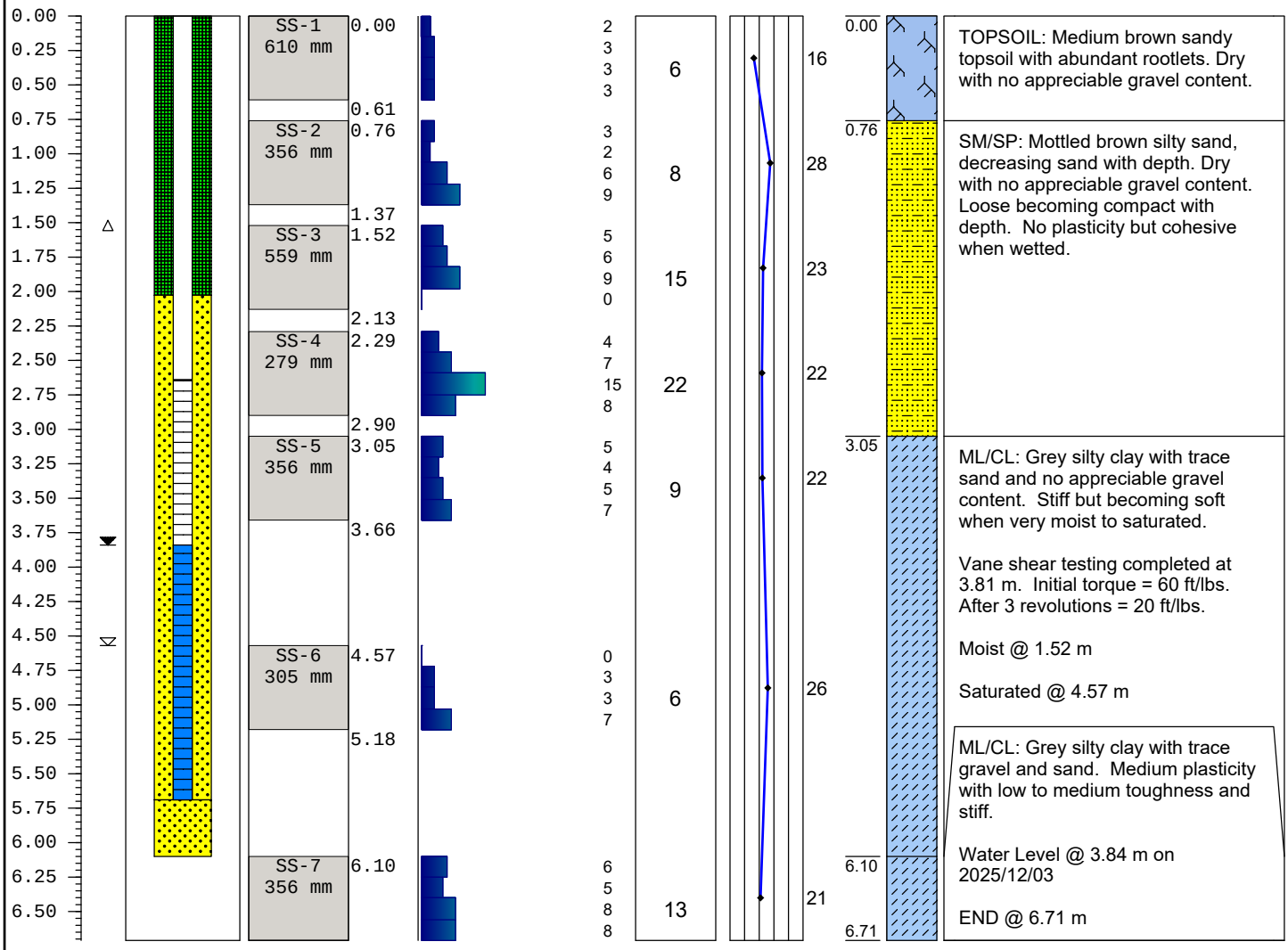
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-8**

TOTAL DEPTH (m): **6.71 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662343,4885503 | 260.44 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

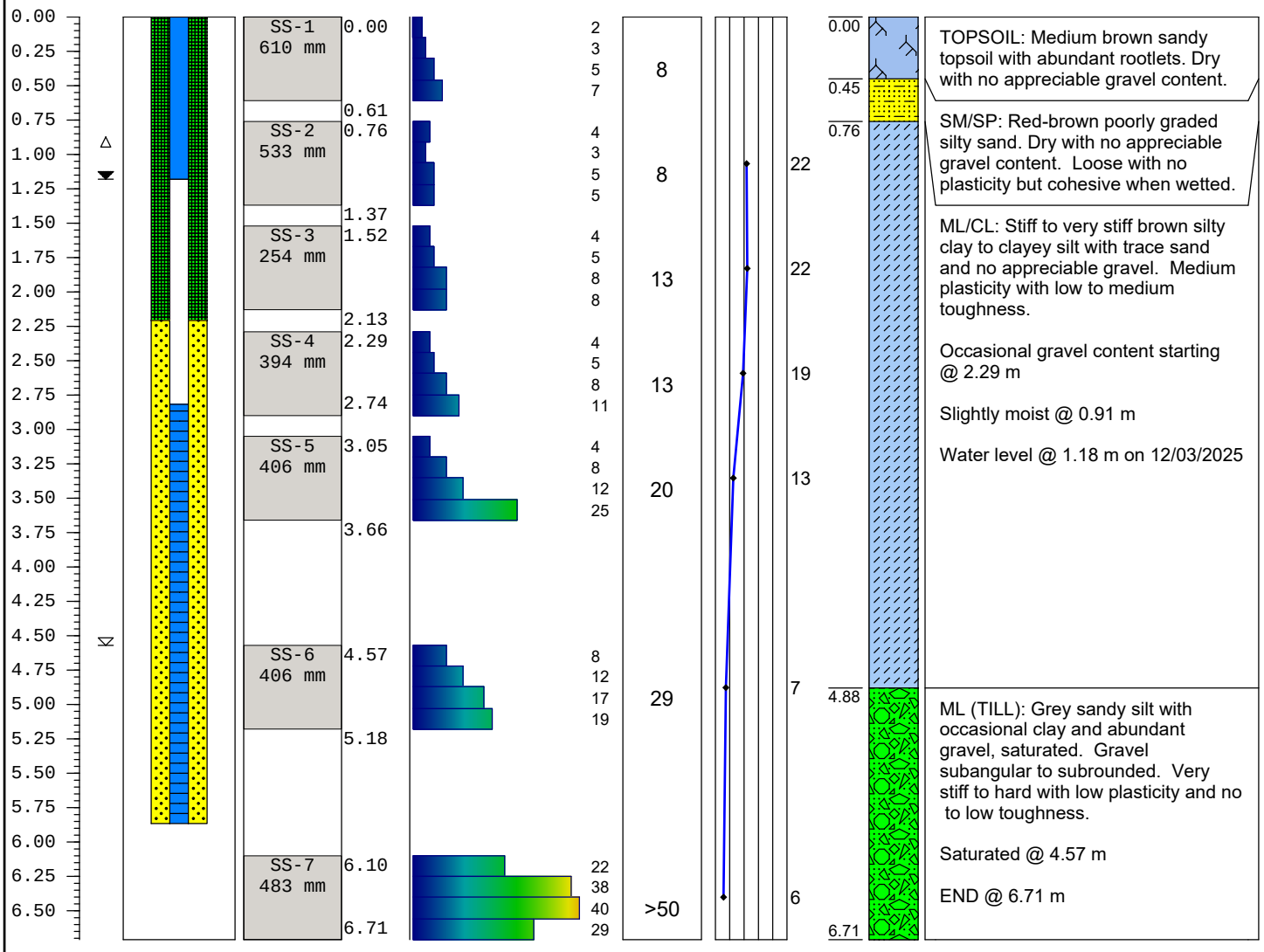
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-9**

TOTAL DEPTH (m): **6.71 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662078,4885656 | 257.39 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM & DB**

DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

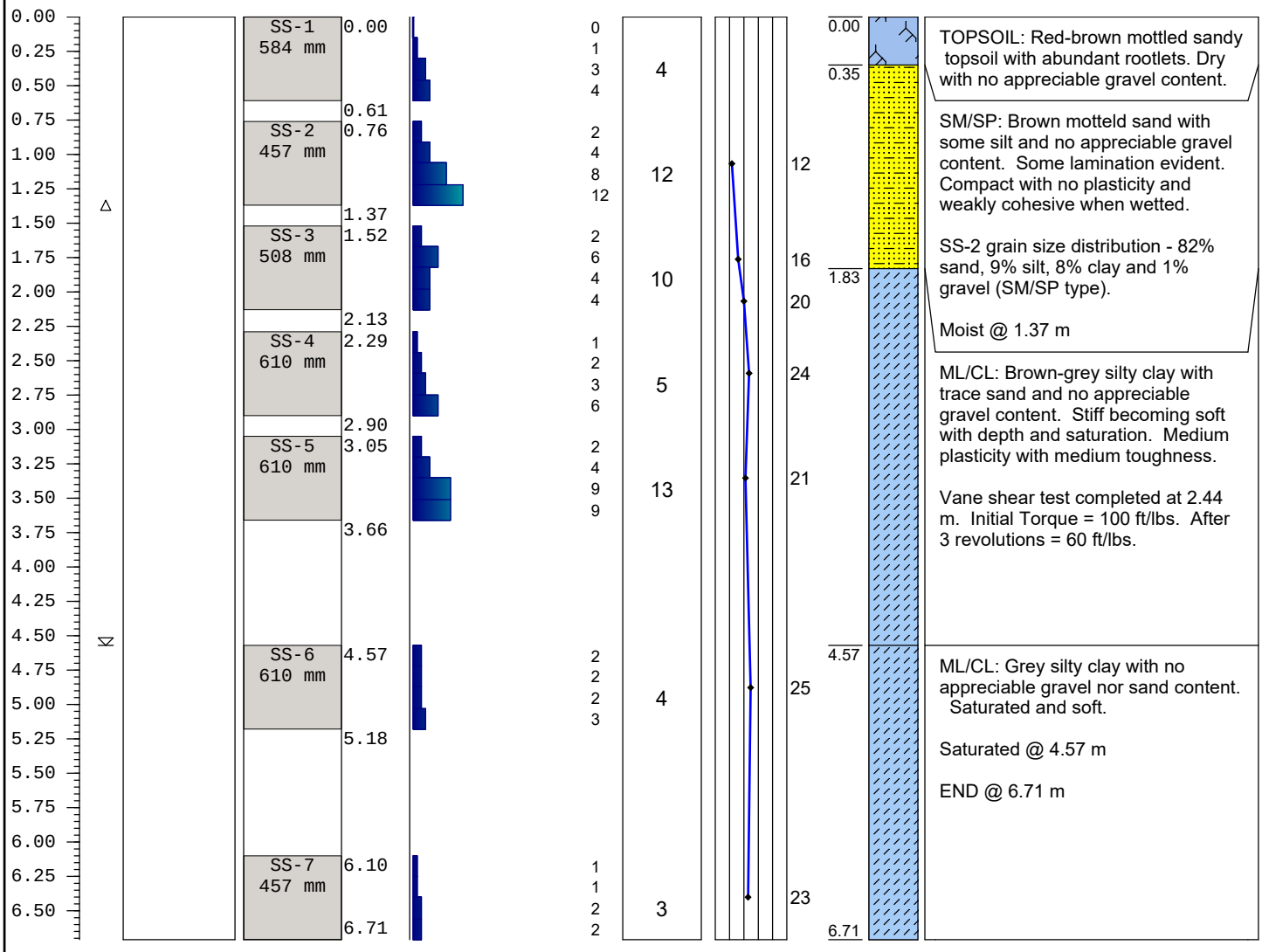
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG




NOTES: 5 Celsius, 5 mm rain starting in the afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-10**

TOTAL DEPTH (m): **2.90 m**

| UTM Coordinates : | Elevation (masl) : |
|---|---|
| 662790,4885698 | 274.46 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

# FIELD BOREHOLE LOG

| Depth | Piezometer Installation | Sample # Recovery | Blow Counts | Field N Value | Moisture % | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | SS-1 610 mm | 0.00 | 0 | | 0.00 | TOPSOIL: Red-brown sandy topsoil with abundant rootlets. Slightly moist with no appreciable gravel content. |
| 0.25 | | | | 1 | | | |
| 0.50 | | | | 3 | | | |
| | | | 0.61 | 3 | | 0.61 | SM (TILL): Brown silty sand with some gravel. Slightly moist and compact. No plasticity but cohesive when wetted. |
| 0.75 | | SS-2 305 mm | 0.76 | 4 | | | |
| 1.00 | | | | 4 | | | |
| 1.25 | | | | 9 | | | |
| | | | 1.37 | 13 | | | |
| 1.50 | | SS-3 610 mm | 1.52 | 14 | | 1.52 | ML (TILL): Brown sandy silt with abundant subangular to subrounded gravel and trace clay. Very hard, with low plasticity and no toughness. Becoming moist with depth. |
| 1.75 | △ | | | 20 | | | |
| 2.00 | | | | 21 | | | Moist @ 1.83 m |
| 2.25 | | | 2.13 | 25 | | | |
| | | SS-4 508 mm | 2.29 | 16 | | | END @ 2.90 m |
| 2.50 | | | | 23 | | | |
| 2.75 | | | 2.90 | 42 | | 2.90 | |
| | | | | 23 | | | |

NOTES: 0 Celcius, windy with snow starting in the afternoon. Intended to re-test shallow soils near BH25-4.

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HAND AUGER I.D.: **HA25-1**

TOTAL DEPTH: **0.50 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662633, 4885313 | 276.89 |

| PROJECT INFORMATION | CONTRACTOR INFORMATION |
|---|---|
| PROJECT NO: **25-3614** | CONTRACTOR: **Oakridge Environmental Ltd.** |
| SITE LOCATION: **Reach Street, Port Perry** | EQUIPMENT: **Manual (Hand) Auger** |
| LOGGED BY: **DC** | STANDPIPE/PIEZOMETERS: **N/A** |
| DATES ASSESSED: **November 25, 2025** | SAMPLING METHODS: **Composite grab** |

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 0.20 | | | | | | | TOPSOIL: Brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content. |
| 0.20 – 0.50 | | | Borehole dry upon completion | | 0.20 m | | SM (TILL): Mottled red-brown silty sand with no appreciable gravel content. Dry.<br><br>END @ 0.50 m |

NOTES: 5 Celsius, 5 mm rain starting in afternoon. Used to complete infiltration test 1 & 2.

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HAND AUGER I.D.: **HA25-2**

TOTAL DEPTH: **0.48 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662714, 4885295 | 281.44 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DC**
DATES ASSESSED: **November 25, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | TOPSOIL: Dark brown sandy topsoil with abundant rootlets. Slightly moist with occasional sub-rounded gravel. . |
| 0.05 | | | | | | | |
| 0.10 | △ | | | | | | |
| 0.15 | | | | | | | |
| 0.18 m | | | | | | | SM (TILL): Mottled brown, oxidized silty sand with subangular to subrounded gravel. Slightly moist. |
| 0.20 | | | | | | | END @ 0.48 m |
| 0.25 | | | | | | | |
| 0.30 | | | | | | | |
| 0.35 | | | | | | | |
| 0.40 | | | | | | | |
| 0.45 | | | Borehole dry upon completion | | | | |

NOTES: 5 Celsius, 5 mm rain starting in afternoon

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HAND AUGER I.D.: **HA25-3**

TOTAL DEPTH: **0.69 m**

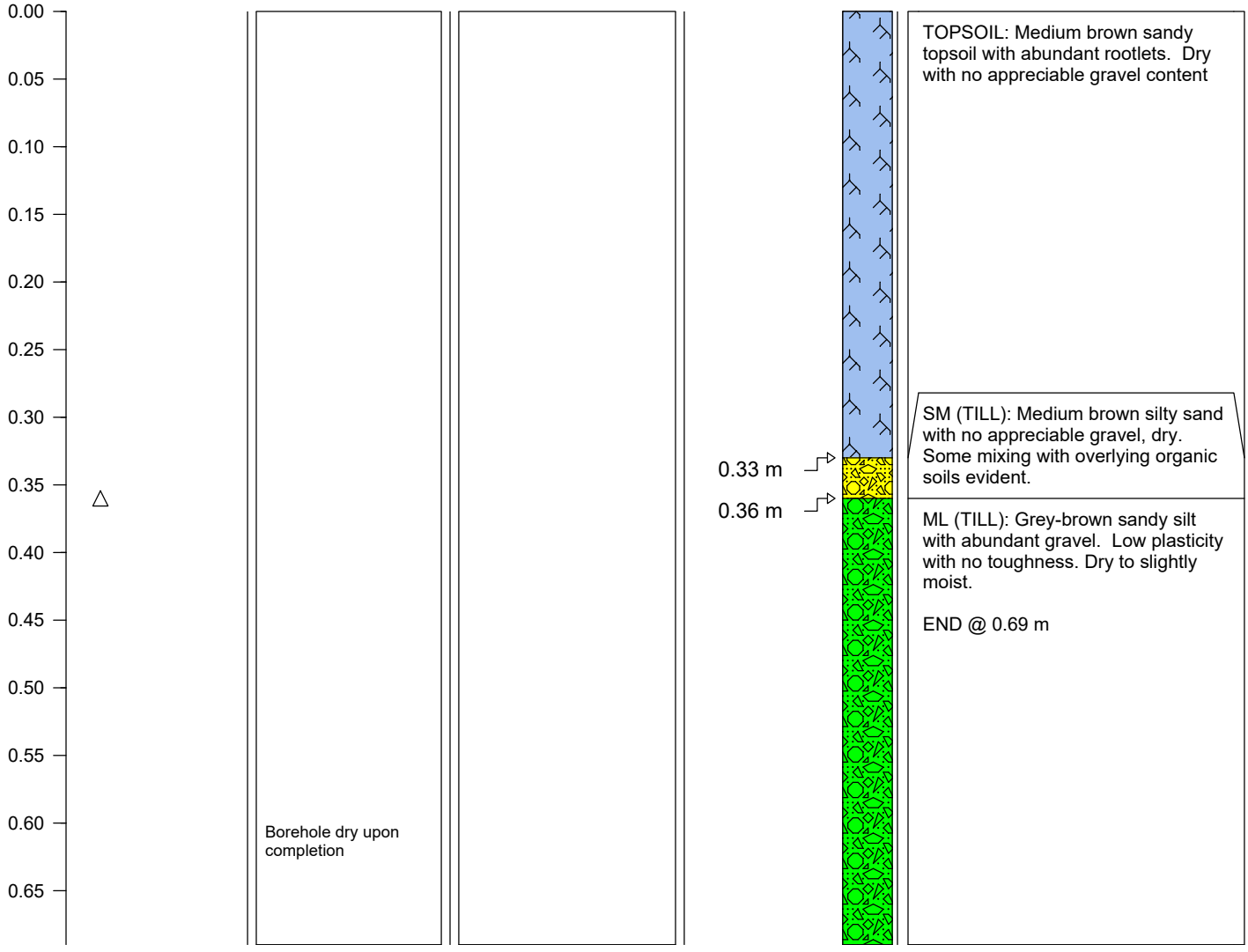
| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662431, 4885716 | 266.75 |

| PROJECT INFORMATION | CONTRACTOR INFORMATION |
|---|---|
| PROJECT NO: **25-3614** | CONTRACTOR: **Oakridge Environmental Ltd.** |
| SITE LOCATION: **Reach Street, Port Perry** | EQUIPMENT: **Manual (Hand) Auger** |
| LOGGED BY: **DM** | STANDPIPE/PIEZOMETERS: **N/A** |
| DATES ASSESSED: **November 26, 2025** | SAMPLING METHODS: **Composite grab** |

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|




NOTES: 5 Celsius, rain on and off throughout day. Used to complete infiltration test 3.

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HAND AUGER I.D.: **HA25-4**

TOTAL DEPTH: **0.38 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662432, 4885711 | 267.13 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content |
| 0.05 | | | | | | | |
| 0.10 | | | | | | | |
| 0.15 | | | | | | | |
| 0.20 | | | | | | | |
| 0.25 | | | | | 0.25 m | | SM (TILL): Brown silty sand with abundant gravel, dry and dense. Gravel subangular to subrounded. |
| 0.30 | | | Borehole dry upon completion | | | | END @ 0.38 m |
| 0.35 | | | | | | | |

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-5**

TOTAL DEPTH: **0.77 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662433, 4885668 | 265.55 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 0.11 | | | | | | | TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content |
| 0.11 – 0.33 | | | | | 0.11 m | | SM (TILL): Mottled grey silty sand with occasional gravel. |
| 0.33 – 0.77 | | | Borehole dry upon completion | HA25-5 (0.70 m) | 0.33 m | | ML (TILL): Mottled grey sandy silt with abundant gravel. Low plasticity with no toughness. Dry.<br><br>Refused on gravel/cobble @ 0.77 m |

0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-6**

TOTAL DEPTH: **0.53 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662295, 4885687 | 260.90 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | TOPSOIL: Medium grey-brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content |
| 0.05 | | | | | | | |
| 0.10 | | | | | | | |
| 0.15 | | | | | | | |
| 0.20 | | | | | | | |
| 0.25 | | | | | | | |
| 0.28 m | | | | | 0.28 m | | SM/SP: Mottled grey silty sand with no appreciable gravel content, dry. Some lamination evident. |
| 0.30 | | | | | | | |
| 0.35 | | | | | | | END @ 0.53 m |
| 0.40 | | | | | | | |
| 0.45 | | | Borehole dry upon completion | | | | |
| 0.50 | | | | | | | |

NOTES: 5 Celsius, rain on and off throughout day. Used to completed infiltration test 4

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HAND AUGER I.D.: **HA25-7**

TOTAL DEPTH: **1.22 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 663031, 4885370 | 263.83 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00–1.20 | △ at 1.10 | | Borehole dry upon completion | HA25-7 (0.81-0.86 m)<br>HA25-7 (0.86-1.12 m) | 0.53 m<br>1.12 m | | TOPSOIL: Brown-grey sandy topsoil with abundant rootlets. Dry with no appreciable gravel content<br>SP: Oxidized well sorted (poorly graded) sand with no appreciable gravel content and occasional silt. Decreasing oxidation with depth and dry.<br>ML (TILL): Brown-grey sandy silt with abundant gravel. Low plasticity with no toughness. Moist.<br>End at length of auger @ 1.22 m |

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-8**

TOTAL DEPTH: **1.22 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 663050, 4885344 | 262.92 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 1.20 | | | Borehole dry upon completion | | 0.30 m | | TOPSOIL: Brown-grey sandy topsoil with abundant rootlets. Dry with no appreciable gravel content<br><br>SM/SP: Grey well sorted (poorly graded) sand with silt and no appreciable gravel content, dry.<br><br>End at length of auger @ 1.22 m |

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-9**

TOTAL DEPTH: **0.53 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662363, 4885223 | 262.66 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | TOPSOIL: Grey-brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content |
| 0.05 | | | | | | | |
| 0.10 | | | | | | | |
| 0.15 | | | | | | | |
| 0.20 | | | | | | | |
| 0.25 | | | | | | | |
| 0.28 m | | | | | 0.28 m | | SM/SP: Mottled grey silty sand with no appreciable gravel content, dry. |
| 0.30 | | | | | | | END @ 0.53 m |
| 0.35 | | | | | | | |
| 0.40 | | | | | | | |
| 0.45 | | | Borehole dry upon completion | | | | |
| 0.50 | | | | | | | |

NOTES: 5 Celsius, rain on and off throughout day. Used to completed infiltration test 5

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HAND AUGER I.D.: **HA25-10**

TOTAL DEPTH: **1.22 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662870, 4885479 | 268.09 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 0.75 | | | | | | | TOPSOIL: grey sandy topsoil with abundant rootlets. Slightly moist with occasional sub-rounded gravel. Dry. |
| 0.76 m | | | | | 0.76 m | | |
| 0.75 – 1.22 | | | Borehole dry upon completion | | | | SM (TILL): Mottled grey silty sand with subangular to subrounded gravel, dry.<br>END @ 1.22 m |

NOTES: 5 Celsius, 5 mm rain starting in afternoon

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HAND AUGER I.D.: **HA25-11**

TOTAL DEPTH: **0.56 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662996, 4885516 | 264.20 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | TOPSOIL: Brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content. |
| 0.05 | | | | | | | |
| 0.10 | | | | | | | |
| 0.15 | | | | | | | |
| 0.20 | | | | | | | |
| 0.25 | | | | | | | |
| 0.30 | | | | | 0.29 m | | SM/SP: Oxidixed red-brown well sorted (poorly graded) sand, decreasing oxidation with depth. Dry with no appreciable gravel content. |
| 0.35 | | | | | | | |
| 0.40 | | | | | | | END @ 0.56 m |
| 0.45 | | | | | | | |
| 0.50 | | | Borehole dry upon completion | | | | |
| 0.55 | | | | | | | |

NOTES: 5 Celsius, 5 mm rain starting in afternoon. Used to completed infiltration test 6.

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HAND AUGER I.D.: **HA25-12**

TOTAL DEPTH: **1.14 m**

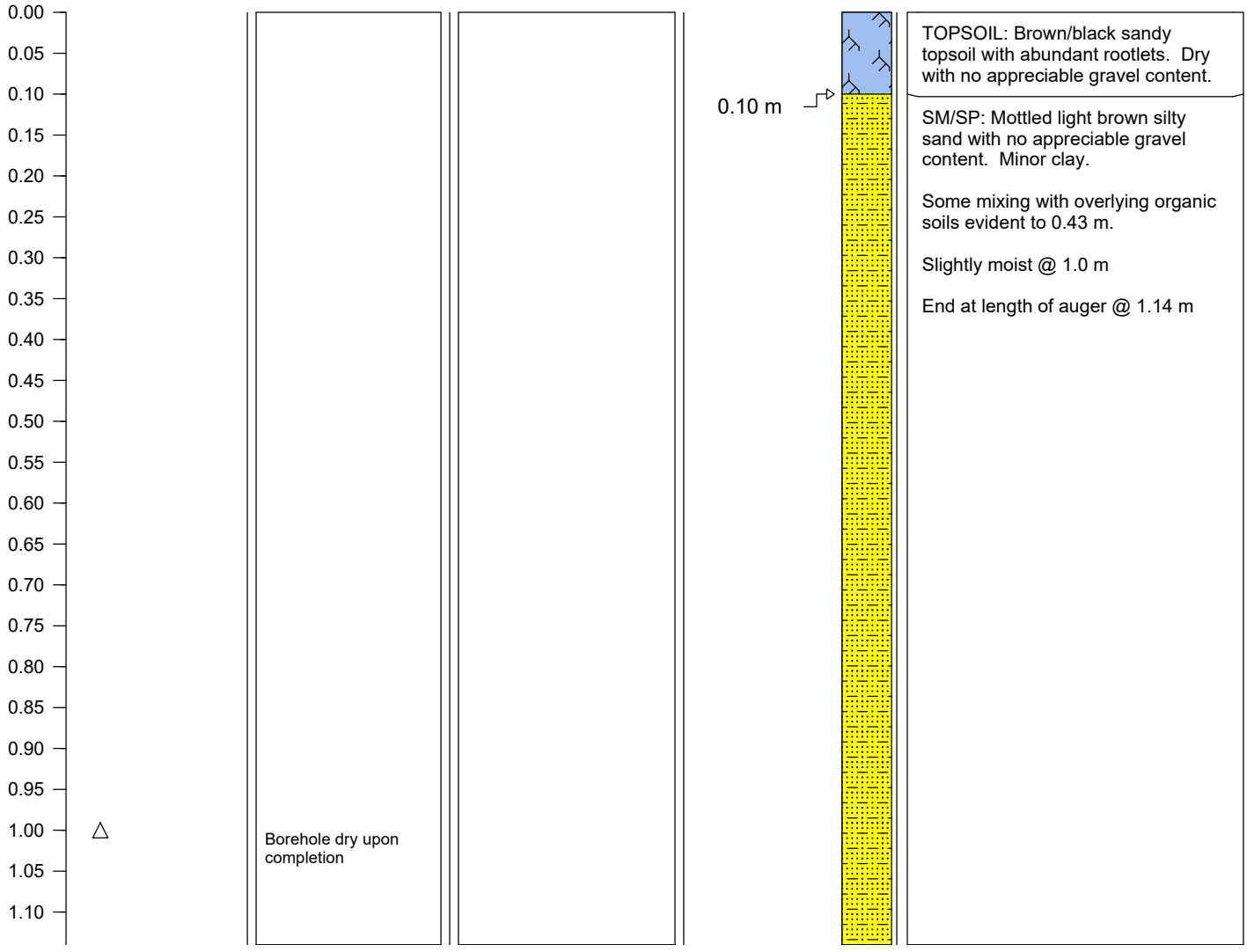
| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662900, 4885296 | 267.63 |

| PROJECT INFORMATION | CONTRACTOR INFORMATION |
|---|---|
| PROJECT NO: **25-3614** | CONTRACTOR: **Oakridge Environmental Ltd.** |
| SITE LOCATION: **Reach Street, Port Perry** | EQUIPMENT: **Manual (Hand) Auger** |
| LOGGED BY: **DM** | STANDPIPE/PIEZOMETERS: **N/A** |
| DATES ASSESSED: **November 14, 2025** | SAMPLING METHODS: **Composite grab** |

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|




NOTES: 6 Celsius, overcast

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Oakridge Environmental Ltd.
Environmental and Hydrogeological Services
647 Neal Drive, Suite 3, Peterborough, Ontario K9J 6X7
Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com

HAND AUGER I.D.: **HA25-13**

TOTAL DEPTH: **1.20 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662737, 4885373 | 281.54 |

| PROJECT INFORMATION | CONTRACTOR INFORMATION |
|---|---|
| PROJECT NO: **25-3614** | CONTRACTOR: **Oakridge Environmental Ltd.** |
| SITE LOCATION: **Reach Street, Port Perry** | EQUIPMENT: **Manual (Hand) Auger** |
| LOGGED BY: **DC** | STANDPIPE/PIEZOMETERS: **N/A** |
| DATES ASSESSED: **December 15, 2025** | SAMPLING METHODS: **Composite grab** |

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 1.15 | | | Borehole dry upon completion | HA25-13 (1.07-1.20 m) | 0.20 m<br>0.90 m | | TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with occasional gravel.<br>SM (TILL): Oxidized brown silty sand with no appreciable gravel content. Dry.<br>ML (TILL): Brown sandy silt with subangular to subrounded gravel, dry.<br>End at length of auger @ 1.20 m |

NOTES: - 5 Celsius, windy, overcast

ORE
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HAND AUGER I.D.: **HA25-14**

TOTAL DEPTH: **1.20 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662090, 4885654 | 257.61 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DC**
DATES ASSESSED: **December 15, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 0.30 | | | | | | | TOPSOIL: Dark-medium brown sandy topsoil with abundant rootlets. Dry with occasional small gravel. |
| 0.30 m | | | | | 0.30 m | | |
| 0.30 – 1.00 | △ | | | | | | SM/SP: Oxidized brown silty sand with no appreciable gravel content. Oxidation decreasing with depth.<br>Moist @ 0.80 m |
| 1.00 m | | | Borehole dry upon completion | | 1.0 m | | |
| 1.00 – 1.20 | | | | | | | ML: Light brown-grey sandy silt with minor clay. Occasional small subangular to subrounded gravel, moist.<br>End at length of auger @ 1.20 m |

NOTES: - 5 Celsius, windy, overcast

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HAND AUGER I.D.: **HA25-15**

TOTAL DEPTH: **0.60 m**

| UTM Coordinates: | Elevation (masl): |
|---|---|
| 662830, 4885990 | 266.60 |

## PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **December 17, 2025**

## CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

# FIELD AUGER LOG

| Depth (cm) | Water | Piezometer Installation | Special Notes | Sample # | Depth | Soil Symbol | Soil Description |
|---|---|---|---|---|---|---|---|
| 0.00 – 0.25 | | | | | 0.25 m | | TOPSOIL: Medium brown silty-sandy topsoil with abundant rootlets. |
| 0.25 – 0.46 | | | | | 0.46 m | | SM/SP: Brown silty sand with trace gravel/cobble. Some mixing with with overlying organic soils observed. |
| 0.46 – 0.55 | | | Borehole dry upon completion | | | | ML: Brown sandy silt with minor clay and trace gravel.<br>Refused on cobble @ 0.61 m |

NOTES: - 5 Celsius, windy, overcast