

## TRANSPORTATION INVESTIGATION LOG: BH-05 TRANS-QAQC

EASTING: -80.2415 m

NORTHING: 43.5178 m

VALIDATION STATUS: Failed

ROUTE / HIGHWAY: Highway 7 Eastbound

PROJECT: Validation QA and QC Examples

CONTRACT / PROJECT NO.: DOT-QAQC-DEMO-001

COMPLETENESS: 72%

STATION / CHAINAGE: 12+450

DATE: 2026-08-14

SURFACE ELEVATION: 312.6

CONFIDENCE: 54%

QA/QC STATE: In Progress

| Depth (m) | Groundwater | Symbol | Pavement / Soil / Rock Description                                                   | Sample ID  | Sample Type | SPT N    | Recovery (%) | USCS / AASHTO | Moisture (%) | Optimum Moisture (%) | CBR (%) | Passing No. 200 (%) | Sieve Passing (%) | DOT Validation / QA-QC |
|-----------|-------------|--------|--------------------------------------------------------------------------------------|------------|-------------|----------|--------------|---------------|--------------|----------------------|---------|---------------------|-------------------|------------------------|
| 0.0       |             |        | Ground Surface                                                                       |            |             |          |              |               |              |                      |         |                     |                   |                        |
| 0.5       |             |        | ASPHALT CONCRETE pavement; two lifts; minor oxidation and transverse cracking. Black | BH05-GB-01 | BULK        |          | 90           | GW-GM / A-1-a | 5.8          |                      | 82      |                     |                   |                        |
| 1.0       |             |        |                                                                                      |            |             |          |              | GP-GM / A-1-b | 8.4          |                      |         | 11.5                |                   |                        |
| 2.0       |             |        | Crushed sand and gravel GRANULAR A base; compact; moist. Brown Grey                  | BH05-SS-01 | SS          | 4 6 7    | 75           |               |              |                      |         |                     |                   |                        |
| 3.0       |             |        | Sand and gravel GRANULAR B Type II subbase; trace silt; compact; moist. Brown        | BH05-SS-02 | SS          | 6 8 9    | 82           | CL / A-6      | 22.6         | 17.5                 | 3       |                     |                   |                        |
| 4.0       |             |        | Brown silty CLAY, trace sand; firm to stiff; moist; native subgrade. Brown           |            |             |          |              |               |              |                      |         |                     |                   |                        |
| 5.0       |             |        |                                                                                      | BH05-SS-02 | SS          | 8 11 13  | 88           |               |              |                      |         |                     |                   |                        |
| 6.0       |             |        | Dense grey-brown sandy silt TILL, some gravel; moist. Grey Brown                     |            | SS          | 14 18 21 | 70           |               |              |                      |         |                     |                   |                        |
| 7.0       |             |        |                                                                                      |            |             |          |              | SM / A-2-4    |              |                      |         |                     |                   |                        |
| 8.0       |             |        |                                                                                      |            |             |          |              |               |              |                      |         |                     |                   |                        |
| 9.0       |             |        |                                                                                      | BH05-SS-05 | SS          | 18 24 28 | 68           |               |              |                      |         |                     |                   |                        |
| 10.0      |             |        |                                                                                      |            |             |          |              |               |              |                      |         |                     |                   |                        |
| 11.0      |             |        |                                                                                      |            |             |          |              |               |              |                      |         |                     |                   |                        |
| 12.0      |             |        | End of Borehole                                                                      |            |             |          |              |               |              |                      |         |                     |                   |                        |

Validation Summary: 2 errors, 2 warnings - review required

Groundwater / Drilling Observations: Water stabilized at 4.8 m

Notes: Deliberate QA/QC exceptions included for demonstration and training

Reviewed By: Pending

Approved By: Pending