

INSTRUMENTATION INSTALLATION LOG: IN-01 Nested VWP Installation

LOCATION: Cambridge, Ontario

CLIENT: Regional Infrastructure Authority

INSTRUMENT TYPE: Nested vibrating-wire piezometers

PROJECT: Riverbank Stabilization Instrumentation

PROJECT NO.: INST-2026-021

MANUFACTURER / MODEL: Geokon 4500S

INSTALLATION DATE: 2026-08-26

GROUND ELEVATION: 328.4

SERIAL NUMBER: VW26-1047 / VW26-1048 / VW26-1049

Depth (ft)	Elev. (ft)	Graphic Log	Material Description	Instrument Construction	Component Interval	Instrument ID	Instrument Type	Cable Tubing	Initial Reading	Logger Channel	Reading Frequency	Remarks
0.0	328.4		Ground Surface		Lockable protective monument							
2.0			SAND AND GRAVEL FILL; compact, brown, moist, trace concrete fragments.		Cement-bentonite grout							
4.0	324.4		Brown									
6.0			SILTY SAND; loose to compact, brown, moist, trace gravel.									
8.0			Brown									
10.0												
12.0												
14.0												
16.0					Bentonite seal							
18.0	310.4				Silica-sand filter pack / VWP-01							
20.0			SILTY CLAY; soft to firm, grey, wet, medium plasticity.			VWP-01	Vibrating-wire piezometer	4-conductor shielded; 35 ft	18.6 kPa / 2847 Hz	CR6-01 / CH-1	15 minutes	
22.0			Grey									VWP-01 saturated before installation; zero reading stable.
24.0					Cement-bentonite grout							
26.0												
28.0												
30.0												
32.0												
34.0	293.4											
36.0			SAND AND GRAVEL; compact to dense, grey-brown, wet, occasional cobbles.									
38.0			Grey-brown									
40.0												

BASELINE DATE / READING: 08/26/2026; readings shown at sensor intervals

INSTALLATION CONTRACTOR: GeoInstrumentation Services Ltd.

NOTES / ACCEPTANCE STATUS: Sensors saturated, zero readings stable, cables tested; installation accepted

MEASUREMENT RANGE / ACCURACY: 0-350 kPa / +/-0.1% full scale

REFERENCE DATUM / MEASURING POINT: Top of protective monument; Elev. 329.2 ft

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42.0				Bentonite seal								
44.0				Silica-sand filter pack / VWP-02		VWP-02	Vibrating-wire piezometer	4-conductor shielded; 60 ft	96.4 kPa / 3015 Hz	CR6-01 / CH-2	15 minutes	VWP-02 installed and cable continuity verified.
46.0												
48.0				Cement-bentonite grout								
50.0												
52.0												
54.0	273.4											
56.0			SANDY SILT TILL; dense to very dense, grey, moist, gravel and cobbles. Grey									
58.0												
60.0												
62.0												
64.0												
66.0				Bentonite seal								
68.0				Silica-sand filter pack / VWP-03		VWP-03	Vibrating-wire piezometer	4-conductor shielded; 85 ft	168.2 kPa / 3268 Hz	CR6-01 / CH-3	15 minutes	VWP-03 installed at deepest monitoring zone.
70.0												
72.0												
74.0	253.4			Bottom seal								Bottom seal placed; borehole grouted upward in stages.
76.0			End of Installation									
78.0												
80.0												

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