

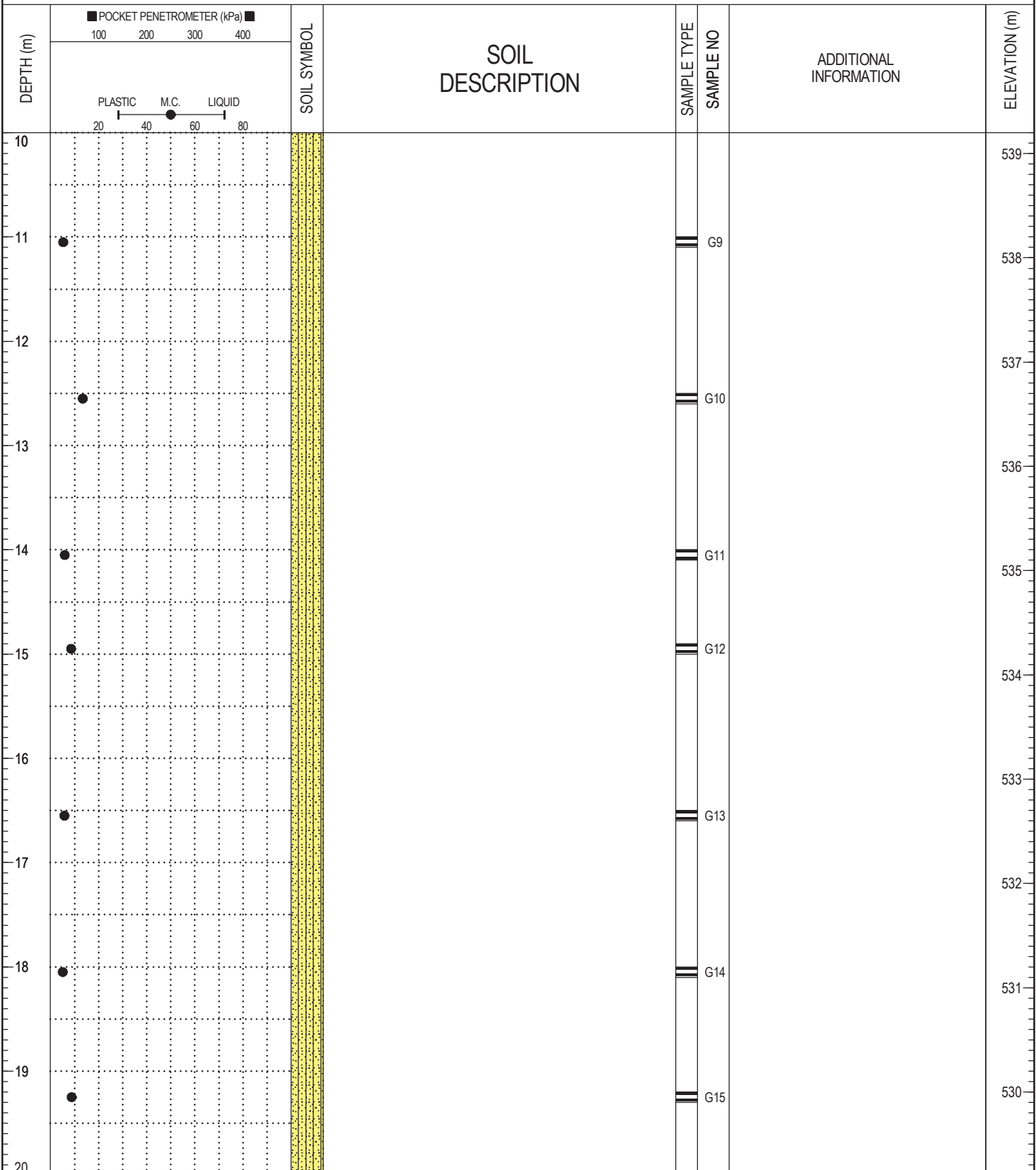
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|--|---|---|
| CLIENT: [REDACTED] | PROJECT: Clinton Creek Remediation Project | BOREHOLE NO: BH18-17 |
| DRILLER: [REDACTED] | Clinton Creek, Yukon | PROJECT NO: [REDACTED] |
| DRILL TYPE/METHOD: Sonic/HQ3 | NORTHING: 7148026.54 EASTING: 513517.34 | ELEVATION: 549.2 m |
| SAMPLE TYPE <input checked="" type="checkbox"/> TUBE | <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPLIT SPOON <input checked="" type="checkbox"/> GRAB | <input type="checkbox"/> MUD RETURN <input checked="" type="checkbox"/> CORE RETURN |

| DEPTH (m) | POCKET PENETROMETER (kPa) | | SOIL SYMBOL | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | ADDITIONAL INFORMATION | ELEVATION (m) |
|-----------|---------------------------|-----|-------------|---|-------------|-----------|------------------------------|---------------|
| | 100 | 200 | | | | | | |
| 0 | | | | SAND and GRAVEL(SM) , some silt to silty, fine to medium grained sand, <4 cm dia., angular gravel, very loose to loose, green to grey, some fibrous asbestos, moist [Tailings] | | | No frozen soils encountered. | 549 |
| 0.5 | | | | | G1 | | | 548 |
| 1.5 | | | | | G2 | | | 547 |
| 2.5 | | | | | G3 | | | 546 |
| 3.5 | | | | | G4 | | | 545 |
| 4.5 | | | | | G5 | | | 544 |
| 5.5 | | | | | G6 | | | 543 |
| 6.5 | | | | | G7 | | | 542 |
| 7.5 | | | | | G8 | | | 541 |
| 8.5 | | | | | | 540 | | |

BOREHOLE LOG CLINTONCREEK.GPJ 1/17/19

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| [REDACTED] | LOGGED BY: [REDACTED] | COMPLETION DEPTH: 54.9 m |
| [REDACTED] | ENTERED BY: [REDACTED] | COMPLETION DATE: 9/1/2018 |
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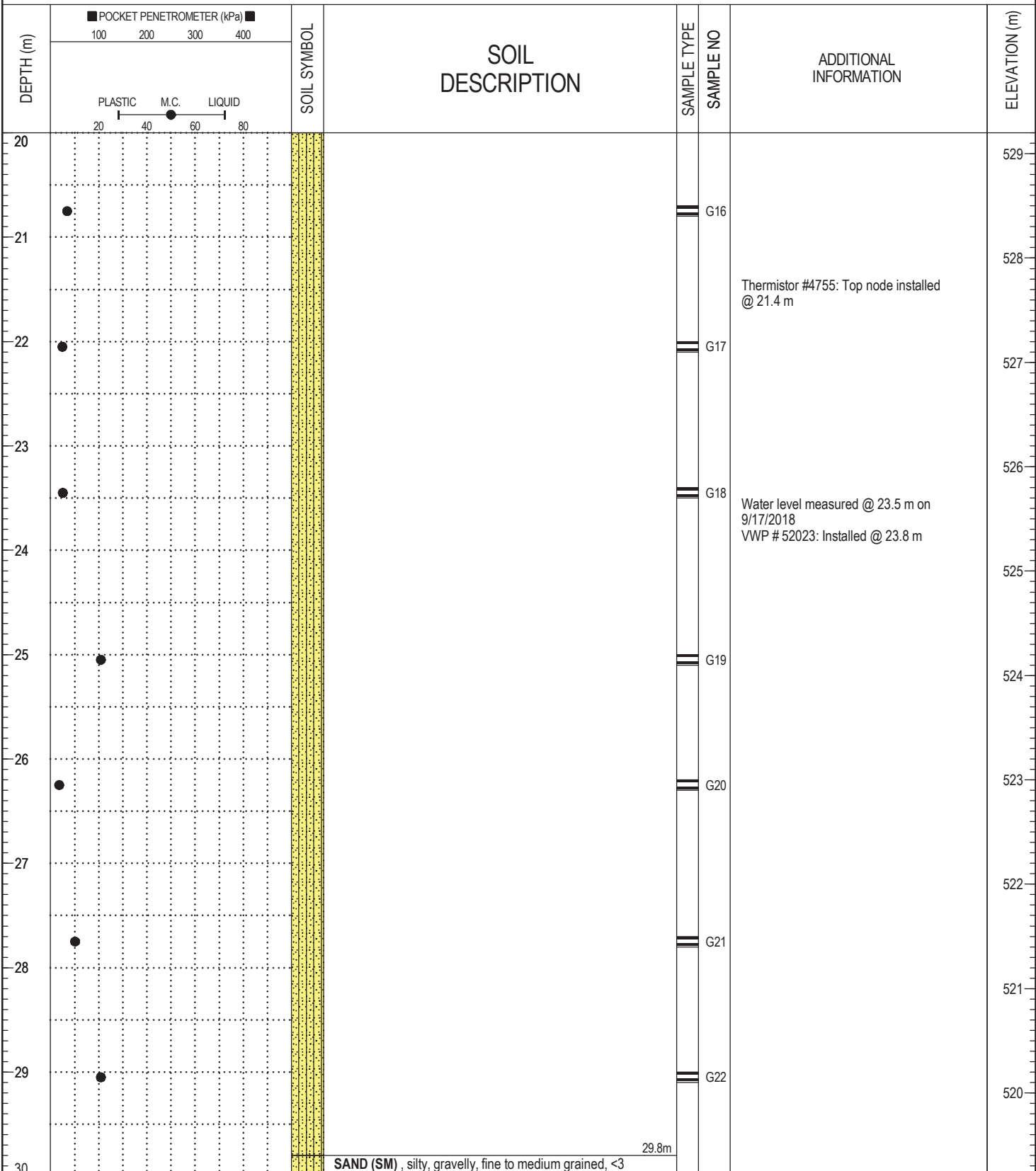
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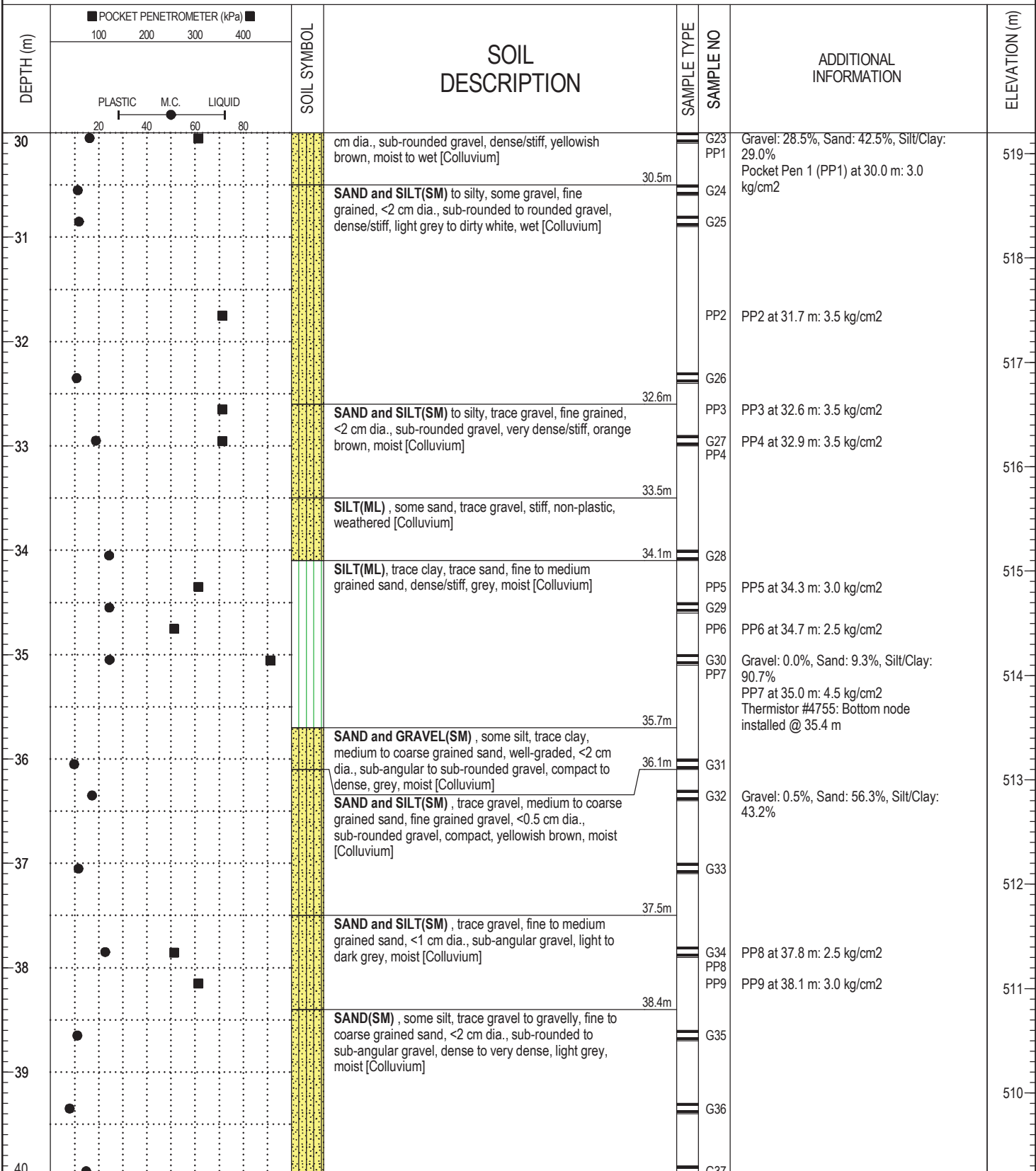
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| | 100 | 200 | | | | | | |
| 40 | | | | SAND and SILT(SM) , some gravel to gravelly, fine to coarse grained, <4 cm dia., sub-rounded to sub-angular gravel, dense to very dense, no visible structure, orange brown to light brown, moist [Colluvium] | | | Difficult drilling at 40.2 m for 4.0 m | 509 |
| 41 | | | | | | G38 | Gravel: 13.1%, Sand: 47.0%, Silt/Clay: 39.9% | 508 |
| 42 | | | | ...below 42.4 m trace cobbles, quartzite, >200 mm dia., sub-rounded to sub-angular gravel | | G39 | | 507 |
| 43 | | | | ...at 42.7 m trace cobbles throughout (75 mm - 100 mm dia.), well-graded, striations on sub-angular gravel, some red oxidation cementing of soil particles | | G40 | Gravel: 14.6%, Sand: 45.8%, Silt/Clay: 39.7% | 506 |
| 44 | | | | | | G41 | | 505 |
| 45 | | | | | | G42 | | 504 |
| 46 | | | | ...below 45.7 m quartzite gravel and cobbles (75 mm - 200 mm dia.), most gravel is sub-angular | | G43 | | 503 |
| 47 | | | | | | G44 | VWP # 52026: Installed @ 46.7 m Gravel: 23.4%, Sand: 40.9%, Silt/Clay: 35.7% | 502 |
| 48 | | | | BEDROCK , highly weathered, black, shows schistosity [Quartz Muscovite Schist] | | G45 | | 501 |
| 49 | | | | ...at 48.8 m dark grey to black, anisotropic, some schistosity, highly weathered and highly fractured Spacing: 3 cm - 6 cm (occasional), Geometry: planar, Orientation: unidirectional (parallel), Core Breakage: hand force, Roughness: smooth, Sheen: dull ...from 48.8 m to 49.0 m highly fractured ...at 49.0 m planar at 15° angle, JRC = 5 | | Core1 | Switch to HQ3 Coring @ 48.8 m Core Run #1: (48.8 m - 50.3 m) TCR: 63% NF = >10 RQD = 39% | 500 |

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| | 100 | 200 | | | | | | |
| 50 | | | | ...at 49.4 m planar at 0-5° angle, JRC = 10 ...at 49.6 m planar at 25° angle, JRC = 5 ...from 49.8 m to 50.3 m possibly gouge, rock strength 2 - very weak, yellow (sulfide veins) and white (quartz veins) evident, aperture - tight | | | Core Run #2: (50.3 m - 51.8 m) TCR: 47% NF = >20 RQD = 0% | 499 |
| 51 | | | | ...at 50.3 m clay gouge, medium grey, highly weathered Spacing: < 1 cm (abundant), Geometry: planar to semi-curved, Orientation: unidirectional (parallel), Core Breakage: hand force to falls apart, Roughness: pock marked, Sheen : dull | | Core2 | | 498 |
| 52 | | | | ...from 51.0 m to 51.8 m highly fractured, completely to highly weathered All natural fractures - at 60° angle, rock strength <1, anisotropic, very weak, aperture - extremely narrow | | | Core Run #3: (51.8 m - 53.4 m) TCR: 53% NF = >20 RQD = 0% | 497 |
| 53 | | | | ...at 51.8 m highly fractured, highly weathered and altered, brown to grey, fractures at 60° to 20° angle, fractures in-filled with oxidation staining, planar fractures, rock strength <1 - very weak Spacing: < 5 cm (occasional), Geometry: planar to semi-curved, Orientation: unidirectional (parallel), Core Breakage: falls apart, Roughness: pock marked, Sheen : dull | | Core3 | | 496 |
| 54 | | | | ...at 51.8 m highly anisotropic, altered and weathered, brown to dark grey, schistosity and folding evident, fractures at 70° angle, oxidation staining, rock strength <1 - very weak Spacing: < 5 cm (occasional), Geometry: planar to undulating natural fractures, Orientation: unidirectional (parallel), Core Breakage: hand force to falls apart, Roughness: pitted, Sheen : dull | | Core4 | Core Run #4: (53.4 m - 54.9 m) TCR: 74% NF = >20 RQD = 0% | 495 |
| 55 | | | | END OF BOREHOLE @ 54.9 m - Water level @ 16.25 m at time of completion. - No Frozen Soils encountered. - 2 VWP's, 1 Thermistor, and 1 SI were installed in the borehole. VWP's and Thermistor were taped to outside of SI and borehole was grouted using a tremie from bottom of hole. The VWP's were placed in sand packs. | | | | 494 |
| 56 | | | | | | | | 493 |
| 57 | | | | | | | | 492 |
| 58 | | | | | | | | 491 |
| 59 | | | | | | | | 490 |
| 60 | | | | | | | | |

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