

Bent Descriptions

End Bent 1 (EB1)

End Bent 1 is located on a steep, wooded slope at the margin of a cleared power line right-of-way. A boring on the left side (EB1-A) penetrated soft weathered rock from the ground surface to termination of the boring at 10.45 meters, with an interval of saprolite from 4.00 to 5.88 meters depth.

The soft weathered rock was orange-brown to green with a sandy silt texture. The saprolite interval consisted of green and reddish brown, hard, moist sandy silt with thin black manganese oxide seams.

A boring on the right side (EB1-B) penetrated only 1.76 meters of soft weathered rock. Hard rock was cored from that depth to the base of the boring at 8.68 meters. Weathered rock was similar to that on the left side. The hard rock consisted of slightly weathered, fractured phyllite with highly weathered seams 20 to 30 centimeters thick. Rock quality was very poor.

Interior Bent 1 (B1)

This bent is located on a steep, wooded slope beside a cleared, artificially terraced part of the slope. Borings on the right, left, and center all encountered saprolite and soft weathered rock to depths of approximately 8 meters, overlying hard rock.

A boring on the left side (B1-A) penetrated 1.2 meters of brown and green, very dense, silty coarse sand saprolite (A-2-4) overlying 7.24 meters of soft weathered rock composed of brown and green, clayey, fine, sandy, silty material. Hard rock was encountered at a depth of 8.44 meters and cored to a total depth of 12.75 meters. It was comprised of good quality, slightly weathered to fresh, sound metasilstone.

A boring on the right side (B1-B) encountered soft weathered rock from ground surface to a depth of 8.04 meters. The upper portion, from 0-5.77 meters was composed of brown, red and green, clayey and fine sandy silt weathered rock. The lower portion, from 5.77-8.04 meters consisted of green, sandy silt weathered rock with saprolite seams at 5.77-5.84 meters, 6.53-6.69 meters, and 7.34-7.42 meters.

Hard rock in this boring was cored from 8.04 meters to the base of the boring at 14.57 meters. The rock can be divided into layers by rock quality and lithology: 8.04-10.84 is very good quality fresh sand metasilstone; 10.84-11.67 is poor quality, fresh, fractured metasilstone; 11.67-13.43 is again very good quality, fresh sound metasilstone; and 13.43 to 14.57 is good quality, very hard, fresh, sound metaquartzite.

A boring at the center of the bent (B1-C) encountered green and reddish-brown fine sandy silt soft weathered rock from the ground surface to 2.88 meters. From that point to a depth of 5.93 meters the boring penetrated very dense saprolite consisting of brown and green silty sand