APPENDIX 2. Terrain Units of the Embon Farm Study Area

UNIT (Name & Origin)	ELEVATION RANGE (m)	SLOPE MORPHOLOGY	REGOLITH & SOIL	DRAINAGE	SURFACE CONDITION	PROCESSES
Crest Residual of long term denudation.	200 - 170	Undulating to flat 3^0 - 5^0	≤1 metre Gradational light grey clayey silt to 0.3 m over yellow-grey mottled to medium to heavy-textured clay to >1.0 m over rock and decomposed rock.	Good - low run-on and high runoff. Minimal ponding. Vertical subsurface soil water movement.	Dry. Continuous grass cover. Surface intact and regular.	Wind exposure gives high evaporation rate. Stable surface when vegetated.
Outcrop slope Rocky slopes below crest with outcrop of thicker, resistant sandstones.	±160	Very steep convex to planar $\pm 50^0$.	Rock outcrops - pockets of shallow grey-brown silty clay and gravelly clay.	Good	Dry, stony.	Rock fall and slide.
Upper hillslope Denudation slope.	170 - 140	Convex to straight - locally very steep 15^0 - 40^0	≤1 metre Some rock outcrop. Gradational to duplex soils - light grey clayey silt to 0.2m over yellow-grey silty clay to 0.5m over rock and decomposing rock.	Good - local seepage. Impeded on areas of irregular and hummocky slope failure surfaces.	Wet during twinter. Surface irregular to highly irregular.	Transportational slopes - rock fall, soil creep, solifluction, bulk slope failure.
Mid-slopes Back-wearing and colluvial accumulation.	140 - 120	Straight to weakly concave 10^0 - 15^0	± 1 metre Irregular depth of regolith and soil. Gradational to duplex soils - light grey clayey silt to 0.2m over yellow-grey silty clay to	Good - to locally impeded. Seepage from upslope and through deposited mass movement material. Surface and sub-surface water movement.	Wet during winter. Surface irregular to highly irregular. Poorly compacted colluvium.	Transportational and depositional slopes - soil creep, solifluction.

			0.5m over rock and decomposing rock.			
Colluvial footslope Past and modern colluvial slope deposition.	130 - 110	Concave 5^0 - 10^0	≥1 metre Irregular depth of regolith and soil. Gradational grey to grey-brown silty clay to 0.3m over yellow-grey weakly mottled medium to heavy-textured clay to 0.6m over decomposed rock.	Poor - locally impeded. Surface and sub-surface water movement.	Surface irregular - local seepage. Poorly compacted colluvium.	Depositional slopes, soil creep, solifluction.
Alluvial terrace Higher level, former floodplains of Foster Creek and tributaries.	100 - 110	Straight 1^0 - 5^0	1 - 2+ metres. Uniform to stratified brown to grey-brown clayey silt, silty clay, fine sandy silt. Charcoal and rock fragments.	Moderate to poor - locally impeded on clay lenses.	Flat to irregular surface with impressions representing former channels.	Minimal deposition - probably in reach of 100 year flood events. Local recent incision (post-settlement).
Modern floodplain Overbank flow.	±100	Straight, flat.	As above but also gradational grey-brown silty clay to 0.3m over yellow-grey mottled medium to heavy-textured clay over rock outcrop, gravel.	As above	As above	Irregular deposition.
Active channels - bed and banks.	±100	Irregular	Banks (as above), sand, logs.	Perennial, intermittent, ephemeral.	N/A	Baseflow, quickflow, bank collapse, channel deposition and incision. Major incision post-settlement.