

394121

POWRANNA

Formed on argillaceous, non-marine sands and clays these undulating plains are composed of river terraces and small gentle scarps. The small gentel scarps give way to the river terraces of the adjoining South Esk River Land System (393121). The major occurrence of this system is to the west of the Midland Highway between Perth and Epping Forest. Smaller areas are found near Hadspen, Evandale, Longford and Cressy. Areas of this system have been previously described by Nicolls (1958).

Moderate to large amounts of waterworn quartz and/or ironstone pebbles occur throughout the duplex soil profiles on both components. Small areas

of soils not containing these waterworn pebbles were found scattered throughout the system, these areas being too small to be incorporated as a separate component. Red mottlings appear at depth in all profiles. Locally derived windblown sands are frequently found on the river terraces and/or scarps.

The open-forest vegetation on the river terrace is dominated by black peppermint, white gum and cabbage gum. Swamp gum is the major constituent of the woodland on the scarps.

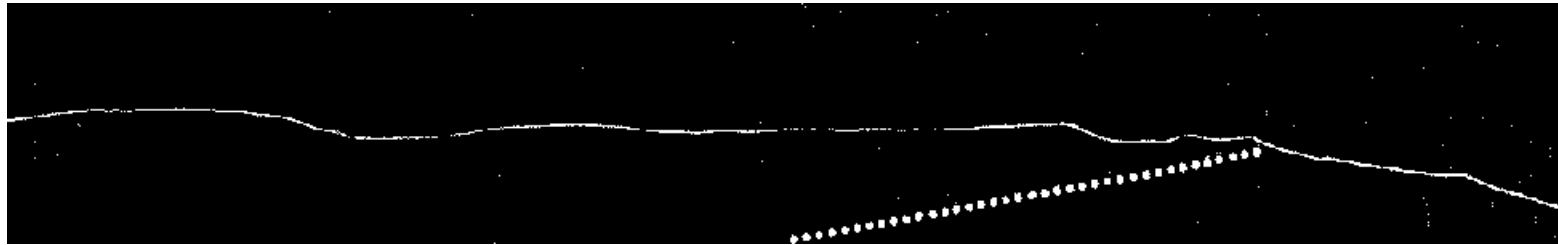
Grazing and cropping are the major land uses. In the past, the black peppermint on the river terrace was felled for wood and fence posts. The gravelly sub-surface layers are used as a source of road surfacing materials.

Hazards are moderate sheet and wind erosion.

LAND SYSTEM

394121

Powranna



COMPONENT	1	2
PROPORTION %	80	20
CLIMATE	Average Annual Rainfall 625-750 mm	
GEOLOGY	Quaternary sands and clays	
TOPOGRAPHY	Undulating plains	
Land form	Undulating plains	
Position	River terrace	Small gentle scarps
Average Sideslope °	1	3
NATIVE VEGETATION	Open-forest	
Structure	Woodland	
Association	Black peppermint, white gum, cabbage gum, silver wattle, honeysuckle, bracken fern, bull-oak	Swamp gum, bracken fern
SOIL	Mottled strong brown (7.5 YR 5/8) light grey (10 YR 6/1) duplex soil	Mottled yellowish brown (10 YR 5/8) grey (10 YR 5/1) duplex soil
Surface Texture	Gravelly sandy loam	Sandy loam
Permeability	Moderate	
Average Depth m	1.8	1.5
PRESENT LAND USE	Grazing, cropping	
HAZARDS	Moderate sheet and wind erosion	