SHALLOW SANDY LOAM OVER ROCK

General Description: Gravelly and stony loamy sand to sandy loam over weathering

basement rock within 50 cm.

Landform: Undulating to rolling stony

slopes with variable rock

outcrop.

Site No.:

Substrate: Granite.

Vegetation:

Type Site:

1:50,000 mapsheet: 6727-4 (Monarto) Hundred: Mobilong Easting: 336570 6113360 Section: 532 Northing:

1976 Annual rainfall: 365 mm average Sampling date:

Upper slope above dissected creek valley, 4% slope. Soft surface with up to 20% surface stone

and granite outcrop.

Soil Description:

Depth (cm) Description

0-10 Dark reddish brown massive firm sandy loam

with 20-50% granite gravel (6-20 mm). Clear to:

MO009

10-22 Dark reddish brown massive firm sandy loam

with 50-90% granite gravel (6-20 mm). Clear to:

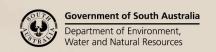
22-30 Weathering granite with pockets of dark red firm

weakly structured medium clay. Clear to:

30-40 Granite.



Classification: Basic, Lithic, Leptic Tenosol; medium, moderately gravelly, loamy / clayey, shallow





Summary of Properties

Drainage: Rapidly drained. The soil never remains wet for more than a few hours at a time.

Fertility: Inherent fertility is moderately low, a reflection of the low clay content. Most nutrient

retention capacity is provided by organic matter, as indicated by the moderately high

levels in the 0-10 cm layer.

pH: Alkaline throughout.

Rooting depth: 30 cm in pit.

Barriers to root growth:

Physical: Hard granite at shallow depth is the over-riding limitation.

Chemical: There are no chemical barriers.

Waterholding capacity: Approximately 20 mm in the rootzone.

Seedling emergence: Satisfactory.

Workability: The soft surface is easily worked, but rocky outcrop and extensive surface stone

hinder cultivation and abrade implements.

Erosion Potential:

Water: Moderate

Wind: Moderately low.

Laboratory Data

Depth cm	Coarse sand	Fine sand	Silt %	Clay %	pH H ₂ O	CO ₃	EC 1:5 dS/m	Cl mg/kg	CEC cmol	Exchangeable Cations cmol(+)/kg				ESP
	%	%							(+)/kg	Ca	Mg	Na	K	
0-10	39	37	4	16	8.4	0.7	0.11	<50	14	11.5	1.3	0.22	0.94	1.6
10-22	58	27	2	10	8.6	0.1	0.07	<50	7	5.4	0.83	0.14	0.27	2.0
22-30	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements. CEC is estimated at this site from the exchangeable cation data.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC.

Further information: DEWNR Soil and Land Program

