

Project Name: Regional
Project Code: REG **Site ID:** T495 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	In plots opposite Macknade Research Labs.
Date Desc.:	02/04/92	Elevation:	<20 metres
Map Ref.:	Sheet No. : 8160 1:100000	Rainfall:	0
Northing/Long.:	146.2625	Runoff:	Moderately rapid
Easting/Lat.:	-18.5861111111111	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Very gently sloped
Slope:	0.5 %	Aspect:	0 degrees

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Class Undetermined Grey Dermosol		Principal Profile Form:	Um6.3
ASC Confidence:		Great Soil Group:	No suitable group
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.2 m	Brown (10YR4/3-Moist); , 10YR52, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
Ap	0.2 - 0.4 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 2-10% , 5-15mm, Faint; , 7.5YR54, 2-10% , 5-15mm, Faint; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Clear change to -
B21	0.4 - 0.7 m	Greyish brown (10YR5/2-Moist); , 7.5YR32, 20-50% , 5-15mm, Distinct; , 5YR46, 20-50% , 5-15mm, Distinct; Fine sandy light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Diffuse change to -
B22	0.7 - 0.95 m	Light brownish grey (10YR6/2-Moist); , 7.5YR34, 10-20% , 5-15mm, Distinct; , 5YR46, 10-20% , 5-15mm, Distinct; Fine sandy light clay (Light); Moderate grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Diffuse change to -
D1	0.95 - 1.25 m	Light brownish grey (10YR6/2-Moist); , 7.5YR34, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Clayey fine sand; Massive grade of structure; Moist; Weak consistence; Diffuse change to -
D2	1.25 - 1.95 m	Light grey (10YR7/1-Moist); , 7.5YR44, 2-10% , 5-15mm, Distinct; , 7.5YR56, 2-10% , 5-15mm, Distinct; Fine sandy loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Diffuse change to -
D3	1.95 - 2.4 m	Grey (5Y5/1-Moist); , 7.5YR34, 20-50% , 15-30mm, Prominent; , 10YR71, 20-50% , 15-30mm, Prominent; Silty medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations;

Morphological Notes

Observation Notes

Site Notes

MACKNADE MILL

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile