Balonne-Maranoa Soil Survey and Soil Moisture Profiles Project Name: Project Code: Site ID: L45 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Locality: Gunn, RH Profile L45 located 1.6 km NW of "Green Hills" HS.

Desc. By: Date Desc.: Elevation: 01/01/74 No Data Sheet No.: SG55-16 1:250000 Map Ref.: Rainfall: 530 Northing/Long.: 149.8589223 Runoff: No Data

Easting/Lat.: -27.54061713 Drainage: Imperfectly drained

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: Substrate Material: No Data No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plain

1-3%

No Data No Data Morph. Type: Relief: Slope Category: Elem. Type: Plain No Data Slope: Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Ug5.16 Black Vertosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Black earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance:

Vegetation:

Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Acacia harpophylla, Geijera parviflora, Eremophila

mitchellii

Surface Coarse Fragments:

<u>Profil</u>	<u>e Morphology</u>	
A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Platy; , Subangular blocky; Firm consistence;
B21	0.1 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; , Subangular blocky; Firm consistence; , Calcareous, , ;
B22	0.4 - 0.9 m	Dark brown (7.5YR3/2-Moist); Mottles, 20-50%, Distinct; Heavy clay; Massive grade of structure, Subangular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, , ;
B24	0.9 - 1.5 m	Dark reddish grey (5YR4/2-Moist); Mottles, 20-50%, Distinct; Heavy clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC			geable Cations K	Exchangeable Na Acidity Cmol (+)/kg		CEC	ECEC	ESP
m		dS/m	Ca i	Mg	N.					%
0 - 0.1 0.1 - 0.4	7A 8.4A	0.62A	20.7A	10.9	0.55					
0.4 - 0.9 0.9 - 1.5	8.8A 8.8A	0.69A	33.6A	19.7	0.05					
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 0.1 - 0.4 0.4 - 0.9 0.9 - 1.5		1.9A								
Depth	COLE					later Contents		K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar	5 Bar 15 B	Bar	mm/h	mm/h
0 - 0.1 0.1 - 0.4 0.4 - 0.9 0.9 - 1.5										

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Laboratory Analyses Completed for this profile

14B1 Electrical conductivity/SE

15A1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

soluble salts

15A1_K Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

soluble salts

15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

soluble salts

3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension 6A1 Organic carbon - Walkley and Black

9G1 Acid-extractable phosphorus - manual colour