

Project Name: Irrigated Soils of the M.I.A., NSW
Project Code: IS **Site ID:** C637a
Agency Name: CSIRO Division of Soils (ACT)

Observation ID: 1

Site Information

Desc. By:	J. Loveday	Locality:	Approximately 7 kilometres west of Griffith. Benerembah, NSW.
Date Desc.:	01/01/66	Elevation:	No Data
Map Ref.:	1:100000	Rainfall:	No Data
Northing/Long.:	145.95	Runoff:	No Data
Easting/Lat.:	-34.28333333	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.13
		Great Soil Group:	Red-brown earth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m	;
0.01 - 0.1 m	Brown (7.5YR4/3-Moist); ; Fine sandy clay loam; Very strong consistence;
0.1 - 0.25 m	Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; , Angular blocky; Very strong consistence;
0.25 - 0.35 m	Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; , Angular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions;
0.35 - 0.9 m	Reddish brown (5YR4/4-Moist); Reddish yellow (5YR6/6-Moist); ; Medium clay; Smooth-ped fabric; , Calcareous, , Concretions;

Morphological Notes

Patchy accumulation of organic mat.
Rusty mottles present. Soil is hard and compact.
10YR34 occurs as stains.
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Shiny aggregate surfaces; carbonate concretions and powder.

Observation Notes

GSG = Transitional RBE.

Site Notes

Site a and b are no more than 10 to 20m apart

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Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
m		g/g - m ³ /m ³								
0 - 10								0.17B		
10 - 20										
20 - 30								0.22B		
30 - 40								0.21B		
40 - 60								0.21B		
60 - 80								0.24B		

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Laboratory Analyses Completed for this profile

15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
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
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A1	Bulk density - g/cm3
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate
P6_LP	Dispersion Index (Loveday and Pyle, 1973)