Project Name: Project Code: Agency Name:	MAR MAR Site ID CSIRO Division of Soils							
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	<u>n</u> C.H. Thompson 04/06/57 Sheet No. : 7963 1:100000 145.46611111111 -17.0180555555556	Locality:Elevation:411 metresRainfall:914Runoff:Moderately rapidDrainage:Well drained						
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Parent. Mat.:No DataSubstrate Material:Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)						
Land Form Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type: Plain						
Morph. Type: Elem. Type: Slope:	No Data No Data 0 %	Relief:No DataSlope Category:No DataAspect:No Data						
Surface Soil Control Soil Control Soil Classification	ondition (dry): Hardsetting							
Australian Soil C Haplic Mesotroph ASC Confidence All necessary and	ic Red Chromosol :: alytical data are available.	Mapping Unit:N/APrincipal Profile Form:Dr2.62Great Soil Group:Red earth						
Vegetation:	<u>ce:</u> Cultivation. Irrigated, past c	, . *Species includes - None Recorded						
	e Fragments: No surface coa	•						
Profile Morpho Ap 0 - 0.18	m Reddish brown (5YR4/3	-Moist); ; Loamy sand; Massive grade of structure; Dry; Firm .2 (pH meter); Sharp change to -						
B1 0.18 - 0.		andy clay loam; Massive grade of structure; Dry; Firm consistence; Few us, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Gradual change						
B21 0.28 - 0.	Angular blocky; Moist; V fragments; Few (2 - 10	Dark red (10R3/8-Moist); ; Sandy medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10%), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6.9 (pH meter); Gradual change to -						
B22 0.58 - 0.	mm, Angular blocky; M fragments; Few (2 - 10	Dark red (10R3/8-Moist); ; Coarse sandy medium clay (Heavy); Weak grade of structure, 50-100 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10%), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 7 (pH meter); Gradual change to -						
B23 0.99 - 1.	Weak consistence; 2-10); ; Coarse sandy medium clay (Light); Massive grade of structure; Moist; %, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), n (2 -6 mm), Soft segregations; Field pH 6.8 (pH meter); Gradual change						
B31 1.68 - 2.		Dark red (10R3/8-Moist); ; Coarse sandy medium clay (Light); Massive grade of structure; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.4 (pH meter);						
<u>Morphological</u>	Notes							

Observation Notes BROAD LOW BANK ON GENTLY UNDULATING PLAIN: Site Notes

MAREEBA

Project Name:	MAR				
Project Code:	MAR	Site ID:	B308	Observation ID: 1	
Agency Name:	CSIRO Division	of Soils (Q	LD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex a	changeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	<i>i</i> a	Wg	ĸ	Cmol				%
0 - 0.18 0.18 - 0.28	6.2H 6.6H	0.01C 0.01C	1.5K	0.21	0.14	0.07		2.5J		2.80
0.28 - 0.58	6.9H 7H	0.01C 0.01C 0.01C	2.5K	0.69	0.49	0.05		6.1J		0.82
0.99 - 1.68 1.68 - 2.29	6.8H 6.4H	0.01C 0.01C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	s
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.18		0.6E 0.37E	44C	0.015F	0.03B			2	41C	47	2	8
0.18 - 0.28								1	33C	40	5	23
0.28 - 0.58 0.58 - 0.99				0.014F				1	27C	31	3	39
0.99 - 1.68								3	28C	31	4	39
1.68 - 2.29								9	29C	28	6	38

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h

0 - 0.18 0.18 - 0.28 0.28 - 0.58 0.58 - 0.99 0.99 - 1.68 1.68 - 2.29

Project Name:	MAR		
Project Code:	MAR	Site ID:	B300
Agency Name:	CSIRO Di	vision of Soils (C	QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

15_NR_CA 15 NR CEC	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded CEC - meg per 100g of soil - Not recorded
15 NR K	Exch. basic cations (K++) - meg per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meg per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
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