

Project Name: EAR
Project Code: EAR **Site ID:** T344 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	
Date Desc.:	19/09/74	Elevation:	No Data
Map Ref.:	Sheet No. : 7956 1:100000	Rainfall:	500
Northing/Long.:	145.183333333333	Runoff:	No Data
Easting/Lat.:	-20.730555555556	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.7 m deep,Sandstone

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:	0 %	Aspect:	No Data

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Magnesic Brown Kandosol		Principal Profile Form:	Gn2.21
ASC Confidence:		Great Soil Group:	Yellow earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia pungens
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus similis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); , 0-0% ; , 0-0% ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm),
A1	0.1 - 0.15 m	Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); , 0-0% ; , 0-0% ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Gradual change to -
A3	0.15 - 0.2 m	Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/3-Dry); , 0-0% ; , 0-0% ; Sandy clay loam (Light); Massive grade of structure; Dry; Very weak consistence;
A3	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/3-Dry); , 0-0% ; , 0-0% ; Sandy clay loam (Light); Massive grade of structure; Dry; Very weak consistence; Gradual change to -
B1	0.3 - 0.6 m	Light yellowish brown (10YR6/4-Moist); Yellow (10YR7/6-Dry); , 0-0% ; , 0-0% ; Sandy clay loam (Heavy); Massive grade of structure; Dry; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.6 - 0.9 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; , 0-0% ; Sandy light clay; Massive grade of structure; Dry; Weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm),
B2	0.9 - 1.1 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; , 0-0% ; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear change to -
BC	1.2 - 1.4 m	Dark yellowish brown (10YR3/6-Moist); , 7.5YR56, 20-50% , 0-5mm, Distinct; , 2.5Y64, 20-50% , 0-5mm, Distinct; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear change to -
C	1.5 - 1.7 m	Red (2.5YR4/6-Moist); , 2.5Y64, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Sandy light clay; Massive grade of structure; Dry; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

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Observation Notes

POSSIBLY ON HARD SANDSTONE SUBSTRATE AT 170 CM.

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Laboratory Test Results:

[illegible]

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis		
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		0.9D	10B	0.001A	0.039A	0.04A		6	52A	38	4	7
0.1 - 0.15			7B					11	51A	38	2	6
0.15 - 0.2								10	49A	40	5	7
0.2 - 0.3		0.34D		0.003A	0.018A	0.04A		11	49A	41	4	6
0.3 - 0.6								25	46A	34	5	16
0.6 - 0.9				0.006A		0.05A		62	41A	30	4	25
0.9 - 1.2								59	43A	27	5	25
1.2 - 1.5				0.006A		0.05A		43	47A	25	5	24
1.5 - 1.7								27	43A	28	6	23

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
MIN_EC	Exchange Capacity - Mineralogy
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_K2O	K ₂ O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction