Project Name: EAR

Project Code: Observation ID: 1 **EAR** Site ID: T346

CSIRO Division of Soils (QLD) Agency Name:

Site Information

R.J. Coventry Locality:

Desc. By: Date Desc.: Elevation: 04/09/73 No Data Map Ref.: Sheet No.: 7956 1:100000 Rainfall: 600 Northing/Long.: 145.1833333333333 Runoff: No Data -20.730555555556 Easting/Lat.: Drainage: No Data

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data **Substrate Material:** Geol. Ref.: No Data No Data

Land Form

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Elem. Type: No Data Relief: No Data **Slope Category:** No Data No Data 0 % Aspect: No Data Slope:

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Bleached-Ferric Mesotrophic Brown Kandosol Principal Profile Form: Gn2.82 **ASC Confidence: Great Soil Group:** Grey earth

Analytical data are incomplete but reasonable confidence.

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

Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia pungens **Vegetation:**

Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus similis, Eucalyptus setosa, Eucalyptus

dichromophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

1 TOTTIC	Wiciphology	
A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many, fine (1-2mm) roots;
A1	0.1 - 0.16 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many, fine (1-2mm) roots; Gradual change to -
A2	0.16 - 0.2 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots;
A2	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots;
A2	0.3 - 0.6 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots;
A2	0.6 - 0.69 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); , 0-0%; , 0-0%; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots; Gradual change to -
B1	0.69 - 0.9 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); , 10YR58, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm, Prominent; Sandy light clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.9 - 1.2 m	Brown (10YR5/3-Moist); , 10YR58, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, medium

gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very many (50 - 100 %),

Ferruginous, Coarse (6 - 20 mm), Nodules;

Proje	ct Name: EA ct Code: EA cy Name: CS								
B2	1.2 - 1.42 m	Brown (10YR5/3-Moist); , 10YR58, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;							
B2	1.42 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Many (20-50%), Ferruginous, Coarse (6-20 mm), Nodules;							
B2	1.5 - 1.8 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Many (20-50%), Ferruginous, Coarse (6-20 mm), Nodules; Gradual change to -							
С	1.8 - 2.1 m	Light brownish grey (2.5Y6/2-Moist); , 10R36, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Rigid consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Substrate material, coarse							
С	2.1 - 2.4 m	Light brownish grey (2.5Y6/2-Moist); , 10R36, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Rigid consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Substrate material, coarse							
С	2.4 - 2.6 m	Light brownish grey (2.5Y6/2-Moist); , 10R36, 10-20% , 15-30mm, Prominent; , 7.5YR58, 10-20% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Rigid consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Substrate material, coarse							
Mornhological Notes									

Morphological Notes
Observation Notes
Site Notes

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Laboratory Test Results:

Laboratory						_		050		-0-0	_	0.0
Depth	рН	1:5 EC dS/m	Ca M	angeable C g ł	(Na Cmol (+)/	changeable Acidity	e CEC	E	CEC		SP %
m		u5/III				Cinoi (+)/i	ку				7	0
0 - 0.1 0.1 - 0.16 0.16 - 0.2	5.6A											
0.10 - 0.2 0.2 - 0.3 0.3 - 0.6	5.9A											
0.6 - 0.69 0.69 - 0.9	6.3A											
0.9 - 1.2 1.2 - 1.42 1.42 - 1.5	6.8A											
1.5 - 1.8 1.8 - 2.1 2.1 - 2.4	6.8A											
2.4 - 2.6	6.7A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		rticle :	Size A FS	nalysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1 0.1 - 0.16 0.16 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.69 0.69 - 0.9 0.9 - 1.2 1.2 - 1.42 1.42 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4 2.4 - 2.6								32 52 68 67 70 69 63 62 56 28 22 10 5	42A 39A 37A 36A 36A 38A 32A 38A 39A 52A 55A	48 49 50 48 47 37 25 25 21 20 22 15 11	4 5 5 5 6 4 4 8 10 8 7 5 5 5 5 5 5	6 8 8 8 11 22 33 35 32 32 32 32 28 30 26
Depth	COLE			iter Contents 1 Bar 5 Bar 15 Bar		15 Bar	K sa	t I	K unsat			
m					m3/m3				mm/l	า	mm/h	
0 - 0.1 0.1 - 0.16 0.16 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.69 0.9 - 1.2 1.2 - 1.42 1.42 - 1.5 1.5 - 1.8 1.8 - 2.1 2.4 - 2.6												

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Laboratory Analyses Completed for this profile

Air-dry moisture content 2A1

4A1 P10_CF_C P10_CF_CS P10_CF_FS P10_CF_Z P10_GRAV pH of 1:5 soil/water suspension
Clay (%) - Coventry and Fett pipette method
Coarse sand (%) - Coventry and Fett pipette method
Fine sand (%) - Coventry and Fett pipette method
Silt (%) - Coventry and Fett pipette method
Gravel (%)