Project Name: EAR

Project Code: EAR Site ID: T350 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

R.J. Coventry Locality: CSIRO Experimental Area.

Desc. By: Date Desc.: 07/08/79 Elevation: No Data Sheet No.: 8057 1:100000 Map Ref.: Rainfall: 650 Northing/Long.: 145.863888888889 Runoff: No Data Easting/Lat.: -20.230555555556 Drainage: No Data

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit Geol. Ref.: **Substrate Material:** No Data No Data

Land Form

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

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

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

No analytical data are available but confidence is fair.

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profil	e Morphology	
A11	0 - 0.1 m	Brown (7.5YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
A12	0.1 - 0.2 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
А3	0.2 - 0.3 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Loamy sand (Heavy); Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B1	0.3 - 0.4 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR6/6-Dry); , 2.5YR48, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Diffuse change to -
B21	0.4 - 0.5 m	Strong brown (7.5YR5/7-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Gradual change to -
B22	0.5 - 0.6 m	Strong brown (7.5YR5/7-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B22	0.6 - 0.9 m	Strong brown (7.5YR5/7-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear change to -

Coarse (6 - 20 mm), Nodules; Clear change to C1 Dark red (10R3/6-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; 0.9 - 0.96 m Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Many (20 -50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Dark red (10R3/6-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Common C1 0.96 - 1.2 m (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

Project Name: EAR

Project Code: EAR Site ID: T350 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

1.2 - 1.5 m

Yellowish red (5YR4/6-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence;

Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

C1 1.5 - 1.8 m

Yellowish red (5YR4/6-Moist); , 5Y72, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Rigid consistence;

Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear, Irregular change to -

R1 1.8 - 2.09 m Rock

2.09 - 2.23 m Rock R2

Morphological Notes

Red and yellow weathered Igneous rock.

Observation Notes

Site Notes

REDLANDS

Project Name: EAR
Project Code: EAR Site ID: T350
Agency Name: CSIRO Division of Soils (QLD) Observation ID: 1

Laboratory Test Results:

Laboratory	<u>Laboratory Test Results:</u>												
Depth	рН	1:5 EC		angeable	Cations K		xchangeable	CEC		ECEC		ESP	
m		dS/m	Ca IV	lg	ĸ	Na Cmol (+)/	Acidity kg					%	
0 - 0.1	5.5A												
0.1 - 0.2	5.5A												
0.2 - 0.3	5.6A												
0.3 - 0.4	5.7A												
0.4 - 0.5	5.8A												
0.5 - 0.6													
0.6 - 0.9	5.8A												
0.9 - 0.96													
0.96 - 1.2													
1.2 - 1.5	5.6A												
1.5 - 1.8													
1.8 - 2.09	5.5A												
2.09 - 2.23	5.2A												
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk			Size A			
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt	Clay	
0 - 0.1								2	47A	40	5	8	
0.1 - 0.2								2	45A	41	5	9	
0.2 - 0.3								1	44A	41	5	11	
0.3 - 0.4								2	44A	33	4	20	
0.4 - 0.5								5	38A	24	4	35	
0.5 - 0.6								22	29A	21	4	46	
0.6 - 0.9								45	29A	17	5	50	
0.9 - 0.96								46	32A	17	6	46	
0.96 - 1.2 1.2 - 1.5								17 11	34A 26A	16 21	6 8	44 45	
1.2 - 1.3 1.5 - 1.8								5	33A	17	8	43	
1.8 - 2.09								8	28A	13	7	53	
2.09 - 2.23								49	80A	9	3	8	
Depth	COLE	C-4		metric/Vol 0.1 Bar	umetric W			K sat K unsat			t		
m		Sat.	0.05 Bar		0.5 Bar j - m3/m3	1 Bar	5 Bar 1	5 Bar	mm/	'h	mm/h		
0 - 0.1 0.1 - 0.2													
0.1 - 0.2													
0.2 - 0.3													
0.4 - 0.5													
0.5 - 0.6													
0.6 - 0.9													
0.9 - 0.96													
0.96 - 1.2													
1.2 - 1.5													
1.5 - 1.8													
1.8 - 2.09													
2.09 - 2.23													

Project Name: EAR

EAR Site ID: T350 Observation ID: 1

Project Code: Agency Name: **CSIRO** Division of Soils (QLD)

Laboratory Analyses Completed for this profile

4A1

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 (%) P10_CF_C P10_CF_CS P10_CF_FS P10_CF_Z P10_GRAV