

Project Name: Regional
Project Code: REG **Site ID:** T473 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	'HILLGROVE' ECOSAT SITE
Date Desc.:	23/10/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8058 1:100000	Rainfall:	0
Northing/Long.:	145.76111111111111	Runoff:	No Data
Easting/Lat.:	-19.6777777777778	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Ferrosol		Principal Profile Form:	Uf5
ASC Confidence:		Great Soil Group:	Euchrozem

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus drepanophylla

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Very weak consistence; Many, fine (1-2mm) roots;
B2	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); Reddish brown (2.5YR4/4-Dry); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Many, fine (1-2mm) roots;
	0.2 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots;
	0.4 - 0.7 m	Red (2.5YR4/8-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
	0.7 - 1 m	Red (2.5YR4/8-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
	1 - 1.3 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
	1.3 - 1.6 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
	1.6 - 1.9 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
BC	1.9 - 2.1 m	Reddish brown (2.5YR4/4-Moist); , 7.5YR6/6, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations;
	2.1 - 2.2 m	;

Morphological Notes

Observation Notes

MINOR COMPONENT OF GRAVELS IS QUARTZ: MANGANESE STAINING THROUGHOUT SOIL:
MOTTLING AT BASE OF PROFILE IS W'D BASALT: LARGE BOULDERS TO 400MM AT 40CM DEPTH: TOP 20CM OF SOIL WAS WET WHEN SAMPLED

Project Name: Regional
Project Code: REG **Site ID:** T473 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Notes
HILLGROVE

Observation ID: 1

[illegible]

Project Name: Regional
Project Code: REG **Site ID:** T473 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
15J1	Effective CEC
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
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 (%)