

Project Name: IDF
Project Code: IDF **Site ID:** T467 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	Trial area 1 'Shell Project' Lanercost: site 112:
Date Desc.:	22/09/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8060 1:100000	Rainfall:	0
Northing/Long.:	145.902777777778	Runoff:	Moderately rapid
Easting/Lat.:	-18.627222222222	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Sheet-flood fan
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	<2 %	Aspect:	40 degrees

Surface Soil Condition (dry): Hardsetting, Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol	Principal Profile Form:	Gn2.21
ASC Confidence:	Great Soil Group:	Red earth
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common, fine (1-2mm) roots; Gradual, Wavy change to -
AB	0.12 - 0.27 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B21	0.27 - 0.54 m	Yellowish red (5YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
B22	0.54 - 0.85 m	Yellowish red (5YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Granite, coarse fragments; Diffuse change to -
B23	0.85 - 1.08 m	Yellowish red (5YR5/8-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Clear, Wavy change to -
BC	1.08 - 1.3 m	Yellowish red (5YR5/8-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Clear, Wavy change to -
2B	1.3 - 1.6 m	Reddish yellow (5YR6/6-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Diffuse change to -
	1.6 - 1.87 m	Reddish yellow (5YR6/6-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Gradual change to -
3B	1.87 - 1.97 m	Reddish brown (5YR5/4-Moist); ; 2.5YR5/8, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions;

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1.97 - 2.07 m ;

Morphological Notes

Observation Notes

STRONGLY WEATHERED GRANITIC GRAVELS BELOW 54CM: 5 X 60MM FINE GRAINED GRANITE GRAVEL IN BC:

Site Notes

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[illegible]

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1.87 - 1.97
1.97 - 2.07

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Laboratory Analyses Completed for this profile

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
5_C_B	Water soluble Chloride - Method recorded as B
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)
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 (%)