

Project Name: IDF
Project Code: IDF **Site ID:** T468 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	TRIAL AREA 2 'SHELL PROJECT' INGHAM: SITE 227
Date Desc.:	22/09/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8060 1:100000	Rainfall:	0
Northing/Long.:	145.905555555556	Runoff:	Slow
Easting/Lat.:	-18.6261111111111	Drainage:	Well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Sheet-flood fan
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Level
Slope:	<1 %	Aspect:	90 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:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Red earth

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.11 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy clay loam (Light); Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Very weak consistence; Common, fine (1-2mm) roots; Clear, Wavy change to -
AB	0.11 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moist; Very weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B21	0.3 - 0.56 m	Yellowish red (5YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
BC	0.56 - 0.9 m	Reddish brown (5YR5/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Moist; Weak consistence; 50-90%, coarse gravelly, 20-60mm, subangular, dispersed, Granite, coarse fragments; Clear change to -
D	0.9 - 1.4 m	Yellowish red (5YR5/8-Moist); ; Clayey coarse sand; Single grain grade of structure; Moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Few, coarse (>5mm) roots;
D	1.4 - 1.5 m	Pink (5YR7/4-Moist); ; Coarse sand; Single grain grade of structure; Moist; Loose consistence; 90-100%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Concretions; Abrupt, Smooth change to -
	1.5 - 1.8 m	Very pale brown (10YR7/3-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 - 6 mm), Concretions; Diffuse change to -
	1.8 - 2.15 m	Pale brown (10YR6/3-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Gradual change to -

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- 2.15 - 2.5 m Pale brown (10YR6/3-Moist); , 5YR58, 2-10% , 5-15mm, Distinct; , 2.5Y61, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Few, coarse (>5mm) roots; Diffuse change to -
- 2.5 - 2.76 m Grey (2.5Y6/1-Moist); , 2.5YR48, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Few, coarse (>5mm) roots;

Morphological Notes

Observation Notes

STRONGLY WEATHERED GRANITE GRAVELS BELOW 56CM:

Site Notes

LANERCOST

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[illegible]

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1.8 - 2.15
2.15 - 2.5
2.5 - 2.76

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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 (%)