

**Project Name:** IDF  
**Project Code:** IDF **Site ID:** T469 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	TRIAL AREA 2 'SHELL PROJECT' LANERECOST: SITE 211
<b>Date Desc.:</b>	22/09/86	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8060 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	145.906944444444	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-18.6244444444444	<b>Drainage:</b>	Imperfectly drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Sheet-flood fan
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Fan	<b>Slope Category:</b>	Level
<b>Slope:</b>	<1 %	<b>Aspect:</b>	70 degrees

**Surface Soil Condition (dry):** Hardsetting, Soft

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Mottled Eutrophic Yellow Kandosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Gn2.31
		<b>Great Soil Group:</b>	Yellow earth

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Light brownish grey (10YR6/2-Dry); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moist; Very weak consistence; Few, fine (1-2mm) roots; Gradual, Wavy change to -
A2sb	0.1 - 0.15 m	Brown (10YR5/3-Moist); , 10YR73, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Clay loam, coarse sandy; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Chert, coarse fragments; Few, fine (1-2mm) roots; Gradual, Irregular change to -
B1	0.15 - 0.45 m	Yellowish brown (10YR5/4-Moist); , 10YR58, 2-10% , 0-5mm, Faint; , 10YR73, 2-10% , 0-5mm, Faint; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few, fine (1-2mm) roots; Diffuse change to -
B21	0.45 - 0.69 m	Brownish yellow (10YR6/5-Moist); , 10YR68, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Few, medium (2-5mm) roots; Gradual change to -
B22	0.69 - 1 m	Light yellowish brown (10YR6/4-Moist); , 10YR68, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Few, medium (2-5mm) roots; Clear change to -
2B	1 - 1.28 m	Light yellowish brown (10YR6/4-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few, medium (2-5mm) roots; Gradual change to -
2B	1.28 - 1.73 m	Light yellowish brown (10YR6/4-Moist); , 10YR68, 2-10% , 0-5mm, Distinct; , 10YR34, 2-10% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moist; Very firm consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
3B	1.73 - 1.92 m	Very pale brown (10YR7/4-Moist); , 10YR78, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots;

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1.92 - 2.02 m ;

**Morphological Notes**

**Observation Notes**

B22 IS A 50% MIX OF GRAVELLY AND FINE MATERIAL:

**Site Notes**

LANERCOST

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[illegible]

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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 <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 <sub>3</sub> extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (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 (%)