

Project Name: IDF
Project Code: IDF **Site ID:** T472 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	SHELL PROJECT: UPPER MURRAY SITE:
Date Desc.:	05/11/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	2300
Northing/Long.:	145.866666666667	Runoff:	Slow
Easting/Lat.:	-18.116666666667	Drainage:	Well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial fan
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	<3 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting, Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.11
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: No surface coarse fragments

Profile Morphology

A	0 - 0.07 m	Black (10YR2/1-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; Abundant, very fine (0-1mm) roots; Gradual, Wavy change to -
AB	0.07 - 0.23 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Common, very fine (0-1mm) roots; Diffuse change to -
B2	0.23 - 0.48 m	Red (2.5YR4/8-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Granite, coarse fragments; Common, very fine (0-1mm) roots; Diffuse change to -
BC	0.48 - 0.82 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; Few, very fine (0-1mm) roots; Clear, Wavy change to -
D	0.82 - 0.95 m	Red (2.5YR4/8-Moist); ; Clayey coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments;
	0.95 - 1.05 m	;

Morphological Notes

Observation Notes

OME GRANITE GV TO 40MM IN 48-82CM: LARGE GRAVEL STOPPED PROLINE: CHARCOAL OCCURS THROUGH 23-82CM: LARGE ROOT 40MM AT 70C

Site Notes

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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 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 (%)