

Project Name: PAT
Project Code: PAT **Site ID:** H218 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	6.4KM NW of Scottsdale on property "Jetsonville":21M and 44M respectively from westerly and northerly boundary fence:
Date Desc.:	19/07/61	Elevation:	165 metres
Map Ref.:		Rainfall:	940
Northing/Long.:	147.463888888889	Runoff:	Rapid
Easting/Lat.:	-41.1180555555556	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Gently inclined
Slope:	2.5 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol	Principal Profile Form:	Gn3.11
ASC Confidence:	Great Soil Group:	Krasnozern

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam (Heavy); Moderate grade of structure, <2 mm, Granular; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
Ap	0.1 - 0.18 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam (Heavy); Moderate grade of structure, <2 mm, Granular; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Sharp change to -
	0.19 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Weak grade of structure, <2 mm, Granular; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Very few (0 - 2 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
	0.3 - 0.48 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Weak grade of structure, <2 mm, Granular; Rough-ped fabric; Weak consistence; 0-2%, Gravel, coarse fragments; Many cutans, >50% of ped faces or walls coated; Clear change to -
B	0.49 - 0.69 m	Dark red (10R3/6-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Many cutans, >50% of ped faces or walls coated; Diffuse change to -
B	0.69 - 0.89 m	Dark red (10R3/6-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Diffuse change to -
BC	0.99 - 1.17 m	Dark red (10R3/6-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
C	1.52 - 1.63 m	Dark red (2.5YR3/6-Moist); , 10YR53; Silty medium clay; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	2.06 - 2.13 m	Dark red (2.5YR3/6-Moist); , 10R36; , 10YR62; Silty medium clay; Weak consistence; 2-10%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

206-213CM SILTY CLAY AND MOTTLED SEMI-HARD MATERIAL:RED MATERIAL HARDER OCCURRING IN VEINS OR

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Site Notes

RINGAROOMA

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[illegible]

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette