

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0134 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	14/06/95	Elevation:	330 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6275960 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	609310 Datum: AGD84	Drainage:	Moderately well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Upper-slope	Relief:	5 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition Cracking, Hardsetting

Erosion (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Episodic Epipedal Red Vertosol	Principal Profile Form:	Ug5.37
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Wet; Field pH 7 (Raupach); Abrupt, Wavy change to -
B1	0.03 - 0.15 m	Red (2.5YR4/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Wet; Field pH 7 (Raupach); Clear change to -
B2	0.15 - 0.55 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Common cutans, 10-50% of ped faces or walls coated; Field pH 6 (Raupach);
B3	0.55 - 0.75 m	Yellowish red (5YR4/6-Moist); Substrate influence, 10YR58, 10-20% , 30-mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach);
c	0.75 - 0.9 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clay loam; Massive grade of structure; Field pH 5.5 (Raupach);

Morphological Notes

A1	Too wet to texture accurately.
c	Weathered dolerite

Observation Notes

Site Notes

Cultivated paddocks have shallow clay - hardsetting grey clay with dolerite dykes cutting through the paddock.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na	Acidity	%
0.03 - 0.15	6.6B 7.7H	20B	4.48A	11.31	0.63	2.72	19.14D
0.03 - 0.15	6.6B 7.7H	20B	4.48A	11.31	0.63	2.72	19.14D
0.15 - 0.55	5.7B 6.6H	39B	2.84A	9.84	0.55	4.37	17.6D
0.15 - 0.55	5.7B 6.6H	39B	2.84A	9.84	0.55	4.37	17.6D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0.03 - 0.15 45								41I 14
0.03 - 0.15 45								41I 14
0.15 - 0.55 49.5								35I 15.5
0.15 - 0.55 49.5								35I 15.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded