

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0348 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/08/95	Elevation:	280 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6244800 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	596260 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:	Crest	Relief:	10 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Hypernatric Red Sodosol	Principal Profile Form:	Dr2.11
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

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

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subangular, Quartz; 0-2%, , subangular, Quartz

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 6
		(Raupach); Abundant, very fine (0-1mm) roots; Sharp, Smooth change to -
A3	0.1 - 0.12 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6
		(Raupach); Common, very fine (0-1mm) roots; Sharp, Wavy change to -
B2	0.12 - 0.35 m	Yellowish red (5YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Faint; Medium heavy clay; Strong
		grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -
B3	0.35 - 0.5 m	Yellowish red (5YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Faint; , 10YR72, 10-20% , 15-30mm, Distinct; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 6.5 (Raupach);
		Common, very fine (0-1mm) roots; Gradual change to -
C	0.5 - 0.6 m	White (10YR8/2-Moist); Mottles, 2.5YR46, 10-20% , 15-grade of structure; Smooth-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

B2	Kaolinitic clay.
B3	Kaolinitic clay.

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.5B 5.6H	7B	2.58H	0.77	0.05	0.25	0.22J	3.65D	
0 - 0.1	4.5B 5.6H	7B	2.58H	0.77	0.05	0.25	0.22J	3.65D	
0 - 0.1	4.5B 5.6H	7B	2.58H	0.77	0.05	0.25	0.22J	3.65D	
0.12 - 0.32	4.3B 5.6H	13B	0.55H	2.38	0.02	1.51	0.6J	4.46D	
0.12 - 0.32	4.3B 5.6H	13B	0.55H	2.38	0.02	1.51	0.6J	4.46D	
0.12 - 0.32	4.3B 5.6H	13B	0.55H	2.38	0.02	1.51	0.6J	4.46D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 4		1.9D							92I		4
0 - 0.1 4		1.9D							92I		4
0 - 0.1 4		1.9D							92I		4
0.12 - 0.32 61.5		0.67D							34I		4.5
0.12 - 0.32 61.5		0.67D							34I		4.5
0.12 - 0.32 61.5		0.67D							34I		4.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRe	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CAsalts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
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_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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