

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0274 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	25/07/95	Elevation:	360 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6286555 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	614890 Datum: AGD84	Drainage:	Imperfectly 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:	10 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Mottled-Mesonatric Yellow Sodosol	Principal Profile Form:	Dy3.13
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Wet; Field pH 6 (Raupach); Sharp, Smooth change to -
A3e	0.12 - 0.14 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.14 - 0.5 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Prominent; Sandy medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6 (Raupach); Gradual change to -
B22	0.5 - 0.65 m	Yellow (10YR7/6-Moist); Mottles, 10YR81, 10-20% , 15-30mm, Distinct; , 2.5YR46, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 8 (Raupach); Gradual change to -
B3	0.65 - 0.9 m	Yellow (10YR7/6-Moist); Mottles, 10YR81, 10-20% , 15-30mm, Prominent; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Field pH 8.5 (Raupach);

Morphological Notes

A3e	Not always present - clay depth varies from 12-15cm.
B22	Kaolinitic clay.
B3	Kaolinitic clay.

Observation Notes

Site Notes

Profile bordering on a "hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	4.7B	6B	1.13H	0.33	0.16	0.07	0.14J		1.69D	
	6H									
0 - 0.12	4.7B	6B	1.13H	0.33	0.16	0.07	0.14J		1.69D	
	6H									
0 - 0.12	4.7B	6B	1.13H	0.33	0.16	0.07	0.14J		1.69D	
	6H									
0.14 - 0.34	5B	10B	1.55H	3.03	0.12	1.28	0.03J		5.98D	
	6.3H									
0.14 - 0.34	5B	10B	1.55H	3.03	0.12	1.28	0.03J		5.98D	
	6.3H									
0.14 - 0.34	5B	10B	1.55H	3.03	0.12	1.28	0.03J		5.98D	
	6.3H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3		CS FS	Silt
0 - 0.12		1.26D							92.5I	4
3.5										
0 - 0.12		1.26D							92.5I	4
3.5										
0 - 0.12		1.26D							92.5I	4
3.5										
0.14 - 0.34		0.37D							37I	3.5
59.5										
0.14 - 0.34		0.37D							37I	3.5
59.5										
0.14 - 0.34		0.37D							37I	3.5
59.5										

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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