

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0247 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	18/07/95	Elevation:	310 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6252100 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	608780 Datum: AGD84	Drainage:	Poorly 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:	Flat	Relief:	5 metres
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypocalcic Mesonatric Grey Sodosol	Principal Profile Form:	Dy2.13
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 2-10%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moist; Firm
		consistence; Field pH 7 (Raupach);
B21	0.05 - 0.3 m	Light brownish grey (2.5Y6/3-Moist); Mechanical, 2.5Y41, 10-20% , 15-30mm, Distinct; Sandy medium
		clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm
		consistence; Soil
		matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -
B22	0.3 - 0.6 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous;
		Field pH 9.5
		(Raupach); Gradual change to -
B3	0.6 - 0.7 m	Light grey (2.5Y7/2-Moist); Mottles, 2.5YR46, 2-10% , 0-5mm, Distinct; Substrate
		influence, 10YR82, 2-
		10% , 0-5mm, Prominent; Sandy light medium clay; Strong grade of structure; Smooth-
		ped fabric;
		Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5
		(Raupach);

Morphological Notes

B21	Cutans - topsoil.
B3	Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay". Field textures used to classify site.

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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 - 0.05	6B 7.1H	10B	2.89A	4.09	0.47	0.55			8D	
0 - 0.05	6B 7.1H	10B	2.89A	4.09	0.47	0.55			8D	
0 - 0.05	6B 7.1H	10B	2.89A	4.09	0.47	0.55			8D	
0.05 - 0.25	7.9B 9.1H	22B	2.7E	5.62	0.28	2.32		11B	10.92D	21.09
0.05 - 0.25	7.9B 9.1H	22B	2.7E	5.62	0.28	2.32		11B	10.92D	21.09
0.05 - 0.25	7.9B 9.1H	22B	2.7E	5.62	0.28	2.32		11B	10.92D	21.09

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.05		1.36D						76I	4.5
19.5									
0 - 0.05		1.36D						76I	4.5
19.5									
0 - 0.05		1.36D						76I	4.5
19.5									
0.05 - 0.25	<2C	0.17D						59I	3.5
37.5									
0.05 - 0.25	<2C	0.17D						59I	3.5
37.5									
0.05 - 0.25	<2C	0.17D						59I	3.5
37.5									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
	Sum of Bases
	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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded

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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