

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0377 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	16/08/95	Elevation:	265 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6237905 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	616430 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:	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 Yellow Sodosol	Principal Profile Form:	Dy2.13
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; Field pH 7
		(Raupach); Abrupt change to -
B21	0.05 - 0.25 m	Light yellowish brown (10YR6/4-Moist); Mechanical, 10YR41, 10-20% , 5-15mm, Distinct; Sandy light
		medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 8.5
		(Raupach); Clear
		change to -
B22	0.25 - 0.4 m	Yellow (10YR7/6-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Distinct; Sandy light
		medium clay; Weak
		grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9.5
		(Raupach); Clear change to -
B3	0.4 - 0.6 m	Yellow (10YR7/6-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Distinct; , 10YR81, 2-10% ,
		15-30mm,
		Distinct; Medium clay; Weak grade of structure; Rough-
		matrix is
		Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B3 Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
				Mg K		Acidity			

m	dS/m		Cmol (+)/kg								%
0 - 0.05	5.6B 6.6H	9B	2.28A	1.74	0.12	0.33				4.47D	
0 - 0.05	5.6B 6.6H	9B	2.28A	1.74	0.12	0.33				4.47D	
0 - 0.05	5.6B 6.6H	9B	2.28A	1.74	0.12	0.33				4.47D	
0.05 - 0.25	7.2B 8.3H	16B	2.28E	5.28	0.2	1.56		9B	9.32D	17.33	
0.05 - 0.25	7.2B 8.3H	16B	2.28E	5.28	0.2	1.56		9B	9.32D	17.33	
0.05 - 0.25	7.2B 8.3H	16B	2.28E	5.28	0.2	1.56		9B	9.32D	17.33	

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 - 0.05 9.5		1.08D							86.5l		4
0 - 0.05 9.5		1.08D							86.5l		4
0 - 0.05 9.5		1.08D							86.5l		4
0.05 - 0.25 43.5	<2C	0.53D							53.5l		3
0.05 - 0.25 43.5	<2C	0.53D							53.5l		3
0.05 - 0.25 43.5	<2C	0.53D							53.5l		3

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
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