

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0389 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	17/08/95	Elevation:	270 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6240580 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	623620 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:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	315 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypercalcic Mesonatric Brown Sodosol	Principal Profile Form:	Db1.13
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 10-20%, medium gravelly, 6-20mm, angular, Quartz; 10-20%, , subangular, Gneiss

Profile Morphology

A1	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm, subangular, Gneiss, coarse fragments; Field pH 7 (Raupach); Abrupt, Wavy change to -
B21	0.08 - 0.25 m	Brown (7.5YR4/4-Moist); Mechanical, 7.5YR32, 10-20% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 8 (Raupach); Clear change to -
B22	0.25 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Clear change to -
B22k	0.4 - 0.6 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, fragments; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B21 Organic cutans.

Observation Notes

Site Notes

Map unit exposed by creek - "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 - 0.08	5.8B	21B	4.49A	4.64	0.22	1.23			10.58D	
	6.9H									
0 - 0.08	5.8B	21B	4.49A	4.64	0.22	1.23			10.58D	
	6.9H									
0 - 0.08	5.8B	21B	4.49A	4.64	0.22	1.23			10.58D	
	6.9H									
0.08 - 0.28	7B	24B	4.54E	7.18	0.19	3.22		17B	15.13D	18.94
	8.2H									
0.08 - 0.28	7B	24B	4.54E	7.18	0.19	3.22		17B	15.13D	18.94
	8.2H									
0.08 - 0.28	7B	24B	4.54E	7.18	0.19	3.22		17B	15.13D	18.94
	8.2H									

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 - 0.08		1.13D						77.5I	9.5
13									
0 - 0.08		1.13D						77.5I	9.5
13									
0 - 0.08		1.13D						77.5I	9.5
13									
0.08 - 0.28	<2C	0.45D						65.5I	7.5
27									
0.08 - 0.28	<2C	0.45D						65.5I	7.5
27									
0.08 - 0.28	<2C	0.45D						65.5I	7.5
27									

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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	

	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