

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0329 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	02/08/95	Elevation:	315 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6247760 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	604420 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:	Upper-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition Recently cultivated, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Mottled-Hypernatric Brown Sodosol	Principal Profile Form:	Dy3.12
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, angular, Quartz; 10-20%, , 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 5.5
		(Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.25 m	Brown (10YR5/3-Moist); Mottles, 5YR56, 10-20% , 15-30mm, Distinct; Medium clay;
	Moderate grade of	structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Clear change to -
B22	0.25 - 0.45 m	Greyish brown (10YR5/2-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; Medium
	clay; Strong	grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6.5 (Raupach); Gradual
		change to -
B3	0.45 - 0.6 m	Light grey (10YR7/2-Moist); Substrate influence, 10YR81, 10-20% , 15-30mm, Distinct;
	Mottles, 5YR56,	2-10% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric;
	Moderately moist;	Field pH 6.5 (Raupach);

Morphological Notes

B22	Kaolinitic clay.
B3	Kaolinitic clay.

Observation Notes

Site Notes

Suffolk sheep grazing oats at site - "hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Cmol (+)/kg	Acidity			%

0 - 0.1	4.8B 5.8H	21B	1.7H	0.73	0.12	0.44	0.14J	2.99D
0 - 0.1	4.8B 5.8H	21B	1.7H	0.73	0.12	0.44	0.14J	2.99D
0 - 0.1	4.8B 5.8H	21B	1.7H	0.73	0.12	0.44	0.14J	2.99D
0.1 - 0.3	4.7B 5.8H	22B	0.77H	2.28	0.04	1.28	0.2J	4.37D
0.1 - 0.3	4.7B 5.8H	22B	0.77H	2.28	0.04	1.28	0.2J	4.37D
0.1 - 0.3	4.7B 5.8H	22B	0.77H	2.28	0.04	1.28	0.2J	4.37D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1 6		1.55D						89.5I 4.5
0 - 0.1 6		1.55D						89.5I 4.5
0 - 0.1 6		1.55D						89.5I 4.5
0.1 - 0.3 47		0.54D						47.5I 5.5
0.1 - 0.3 47		0.54D						47.5I 5.5
0.1 - 0.3 47		0.54D						47.5I 5.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM/R	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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