

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0058 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 16/05/95	Elevation: 330 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6277320 AMG zone: 50	Runoff: No Data
Easting/Lat.: 602850 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: Mid-slope	Relief: 15 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 2 %	Aspect: 270 degrees

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Episodic-Endocalcareous Epipedal Grey Vertosol	Principal Profile Form: Ug5.28
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 - 0.1 m	Dark grey (7.5YR4/1-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 20-50 mm, cutans, >50% of ped
	Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; Many faces or walls coated, distinct; Field pH 8 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B1 0.1 - 0.3 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm, angular, Quartz,
	Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 9.5 (Raupach); Many, fine (1-2mm) roots; Gradual change to -
B2 0.3 - 0.45 m	Grey (2.5Y5/1-Moist); Mottles, 2.5Y31, 2-10% , 5-15mm, Faint; Medium heavy clay; Strong grade of walls coated,
	structure; Smooth-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or faint; Field pH 9.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3 0.45 - 0.75 m	Grey (2.5Y5/1-Moist); Mottles, 2.5Y31, 20-50% , 15-30mm, Distinct; Medium clay; Strong grade of
	structure; Smooth-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Common, fine (1-2mm) roots; Diffuse change to -
C 0.75 - 1 m	Grey (2.5Y5/1-Moist); Mottles, 2.5Y51, 10-20% , 5-15mm, Faint; Light medium clay; Strong grade of
	structure; Smooth-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

C Below 90cm becomes less mottled.

Observation Notes

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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 - 0.1	6.6B 7.5H	17B	6.39A	8.89	0.54	1.37			17.19D	
0 - 0.1	6.6B 7.5H	17B	6.39A	8.89	0.54	1.37			17.19D	

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1 43									52I		5
0 - 0.1 43									52I		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 (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
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
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
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