

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0246 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 18/07/95	Elevation: 320 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6252150 AMG zone: 50	Runoff: No Data
Easting/Lat.: 606680 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: 5 metres
Elem. Type: Summit surface	Slope Category: No Data
Slope: 1 %	Aspect: 225 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mesotrophic Mottled-Subnatic Yellow Sodosol	Principal Profile Form: Dy5.12
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 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 5.5
		(Raupach); Sharp, Smooth change to -
A3e	0.12 - 0.25 m	Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6
		(Raupach); Abrupt, Wavy change to -
B2	0.25 - 0.4 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; , 10YR58, 10-20%
		, 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very
		firm consistence; Field pH 6.5 (Raupach); Gradual change to -
B3	0.4 - 0.6 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 5YR46, 2-10% , 5-15mm, Distinct; Light clay; Weak grade of
		structure; Rough-ped fabric; Dry; Field pH 7 (Raupach);

Morphological Notes

B3 Kaolinitic clay

Observation Notes

Site 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	4.6B									
0.15 - 0.25	4.8B									

0.25 - 0.4	5.4B 6.3H	6B	1.44H	2.14	0.02	0.44	0.03J	4.04D
0.25 - 0.4	5.4B 6.3H	6B	1.44H	2.14	0.02	0.44	0.03J	4.04D
0.4 - 0.5	5.7B							

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											
0.15 - 0.25											
0.25 - 0.4		0.35D							41I		4
55											
0.25 - 0.4		0.35D							41I		4
55											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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
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