

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0166 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	20/06/95	Elevation:	350 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6265010 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	613250 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:	5 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition Cryptogam surface

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Magnesic-Natric Yellow Kurosol	Principal Profile Form:	Dy5.11
ASC Confidence:	Great Soil Group:	N/A

No analytical data are available but confidence is fair.

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 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 10-20%,
		fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach);
		Abrupt change to -
A3	0.05 - 0.1 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular,
		Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt change to -
B1	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Dry; Field pH
		5.5 (Raupach); Clear change to -
B21	0.2 - 0.4 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Medium clay;
		Strong grade of structure; Smooth-ped fabric; Dry; Field pH 5.5 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Light grey (10YR7/2-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Distinct; Medium clay; Strong grade
		of structure, Polyhedral; Smooth-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

B22 Kaolinite clay

Observation Notes

Site Notes

Land degradation assessed in wide road reserve (i.e. native vegetation).

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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				%
0.2 - 0.4	4.5B 5.1H	95B	0.14H	3.13	0.08	1.64	0.45J		4.99D	
0.2 - 0.4	4.5B 5.1H	95B	0.14H	3.13	0.08	1.64	0.45J		4.99D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%
0.2 - 0.4 49								48.5l		2.5
0.2 - 0.4 49								48.5l		2.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMJR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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 (Mn2+) 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
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