

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0436 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 13/09/95	Elevation: 310 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6257600 AMG zone: 50	Runoff: No Data
Easting/Lat.: 635650 Datum: AGD84	Drainage: Rapidly 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: 2 %	Aspect: 0 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Basic Ferric Bleached-Orthic Tenosol	Principal Profile Form: Uc2.21
ASC Confidence:	Great Soil Group: N/A
Analytical data are incomplete but reasonable confidence.	

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, , ; No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark grey (2.5Y4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
A21e	0.15 - 0.3 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Clear change to -
A22e	0.3 - 0.4 m	Pale yellow (2.5Y7/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
A3ec	0.4 - 0.6 m	Very pale brown (10YR7/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Clear change to -
B1wc	0.6 - 0.75 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
B2	0.75 - 0.8 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Coarse sandy loam; Massive grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach);

Morphological Notes

A1	Coarse to medium sand.
A21e	Coarse to medium sand.
A22e	Coarse to medium sand.
A3ec	Coarse to medium sand.
B1wc	Coarse to medium sand.

Observation Notes**Site Notes**

Site is in a small tagasaste plantation.

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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	5.1B									
0.15 - 0.25	4.8B									
0.4 - 0.5	5.1B									
0.75 - 0.8	5.7B	3B	0.92A	1.01	0.13	0.19			2.25D	
	6.9H									
0.75 - 0.8	5.7B	3B	0.92A	1.01	0.13	0.19			2.25D	
	6.9H									

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 - 0.1								
0.15 - 0.25								
0.4 - 0.5								
0.75 - 0.8		0.21D						84I 4.5
11.5								
0.75 - 0.8		0.21D						84I 4.5
11.5								

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_CMRR	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	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
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

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