

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0285 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 26/07/95
Map Ref.:
Northing/Long.: 6292960 AMG zone: 50
Easting/Lat.: 610740 Datum: AGD84
Locality:
Elevation: 345 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Upper-slope
Elem. Type: Hillcrest
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Epibasic Pedal Hypocalcic Calcarosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uf5.12
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; 2-10%, , subrounded, Calcrete

Profile Morphology

A1 0 - 0.1 m Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 8 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B21k 0.1 - 0.4 m Red (2.5YR4/6-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Diffuse change to -
B22 0.4 - 0.6 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -
B3 0.6 - 0.9 m Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 15-30mm, Faint; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B22 Few slickensides.

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
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m	dS/m		Cmol (+)/kg							%
0 - 0.1	6.8B 7.7H 6.7B	14B	7.75A	8.93	1.35	1.32			19.35D	
0 - 0.1	6.8B 7.7H 6.7B	14B	7.75A	8.93	1.35	1.32			19.35D	
0 - 0.1	6.8B 7.7H 6.7B	14B	7.75A	8.93	1.35	1.32			19.35D	
0.1 - 0.4	8.4B 9.4H	56B	4.73E	9.85	0.48	4.91		19B	19.97D	25.84
0.1 - 0.4	8.4B 9.4H	56B	4.73E	9.85	0.48	4.91		19B	19.97D	25.84
0.15 - 0.25	8.2B									
0.4 - 0.6	8.5B 9.3H	117B	2.54E	7.75	0.49	8		18B	18.78D	44.44
0.4 - 0.6	8.5B 9.3H	117B	2.54E	7.75	0.49	8		18B	18.78D	44.44
0.4 - 0.5	8.5B									

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		1.42D							12.5
32									
0 - 0.1		1.42D							12.5
32									
0 - 0.1		1.42D							12.5
32									
0.1 - 0.4	8C	0.37D							11
56									
0.1 - 0.4	8C	0.37D							11
56									
0.15 - 0.25									
0.4 - 0.6	<2C	0.2D							16.5
60									
0.4 - 0.6	<2C	0.2D							16.5
60									
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_CM	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
15C1_CA	salts
pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC	soluble salts
	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

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15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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