Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0133** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 14/06/95
Map Ref.:
Northing/Long.: 6277430 AMG zone: 50
Easting/Lat.: 609350 Datum: AGD84
Locality:
Elevation: 330 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: Crest
Elem. Type: Hillcrest
Slope: 1 %
Relief: 5 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Epihypersodic Pedal Calcic Calcarosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uf6.12
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%, , subangular, Gneiss

Profile Morphology

A1 0 - 0.08 m Brown (10YR4/3-Moist); , 0-0% ; Light clay; Massive grade of structure; Moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.4 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Clear change to -

B22 0.4 - 0.7 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 20-50%, medium gravelly, 6-20mm, angular, , coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Gradual change to -

B23k 0.7 - 0.9 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Light medium clay; Dry; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 Behaves like a clay loam; very slight dispersion.
B22 Charcoal from tree root - mainly from 50-60cm.

Observation Notes

Site Notes

Very sticky surface - trafficability problems when wet (Sunday country).

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	8.1B 8.9H	12B	11.68E	7.46	0.98	0.39		23B	20.51D	1.70
0 - 0.08	8.1B 8.9H	12B	11.68E	7.46	0.98	0.39		23B	20.51D	1.70
0 - 0.1	7.9B 8.8H	12B								
0.08 - 0.3	8.3B 9.2H	18B	9.16E	8.82	0.37	1.58		21B	19.93D	7.52
0.08 - 0.3	8.3B 9.2H	18B	9.16E	8.82	0.37	1.58		21B	19.93D	7.52
0.15 - 0.25	8.3B 9.2H	18B								
0.4 - 0.5	8.6B 9.8H	37B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size			Analysis
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 35.5	<2C								59I		5.5
0 - 0.08 35.5	<2C								59I		5.5
0 - 0.1 0.08 - 0.3 43	4C								52.5I		4.5
0.08 - 0.3 43	4C								52.5I		4.5
0.15 - 0.25											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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 (CaCO3) - 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
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