Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0209** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 11/07/95
Map Ref.:
Northing/Long.: 6255975 AMG zone: 50
Easting/Lat.: 626165 Datum: AGD84
Locality:
Elevation: 335 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly 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: Mid-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Hypocalcic Mesonatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subangular, Quartz; 10-20%, , subangular, Gneiss

Profile Morphology

A1p 0 - 0.08 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; Very weak consistence; Field pH 5.5 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.25 m Brown (10YR5/3-Moist); , 0-0% ; Sandy medium heavy clay; Strong grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22 0.25 - 0.35 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach); Clear change to -

B3 0.35 - 0.4 m Light grey (2.5Y7/2-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure; Rough-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

B3 Stopped by rock.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				

m		dS/m			Cmol (+)/kg					%
0 - 0.08	5.1B 6.3H	13B	2.75H	2.35	0.26	0.72	0.06J		6.08D	
0 - 0.08	5.1B 6.3H	13B	2.75H	2.35	0.26	0.72	0.06J		6.08D	
0 - 0.08	5.1B 6.3H	13B	2.75H	2.35	0.26	0.72	0.06J		6.08D	
0 - 0.1	4.9B									
0.08 - 0.28	7.5B 8.6H	27B	4.66E	9.44	0.14	3.89		19B	18.13D	20.47
0.08 - 0.28	7.5B 8.6H	27B	4.66E	9.44	0.14	3.89		19B	18.13D	20.47
0.08 - 0.28	7.5B 8.6H	27B	4.66E	9.44	0.14	3.89		19B	18.13D	20.47
0.15 - 0.25	7.8B									
0.35 - 0.45	8.5B									

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		1.8D							85I		5.5
9.5											
0 - 0.08		1.8D							85I		5.5
9.5											
0 - 0.08		1.8D							85I		5.5
9.5											
0 - 0.1											
0.08 - 0.28	<2C	0.35D							60I		6.5
33.5											
0.08 - 0.28	<2C	0.35D							60I		6.5
33.5											
0.08 - 0.28	<2C	0.35D							60I		6.5
33.5											
0.15 - 0.25											
0.35 - 0.45											

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
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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay

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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
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