Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0466** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 19/09/95
Map Ref.:
Northing/Long.: 6281990 AMG zone: 50
Easting/Lat.: 629490 Datum: AGD84
Locality:
Elevation: 305 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: Summit surface
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Hypocalcic Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uf6.13
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; 10-20%, , subrounded, Calcrete

Profile Morphology

Ap 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Firm consistence; Field pH 7.5 (Raupach); Abrupt, Wavy change to -

B21 0.1 - 0.3 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -

B22 0.3 - 0.6 m Pale yellow (2.5Y7/3-Moist); Mottles, 10YR66, 0-2% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -

B31 0.6 - 0.8 m Pale yellow (2.5Y7/4-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -

B32 0.8 - 0.9 m Light grey (2.5Y7/2-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Substrate influence, 10YR81, 2-10% , 15-30mm, Prominent; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 8.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	6B 7.2H	9B	4.11A	5.6	1	0.75			11.46D	
0 - 0.1	6B 7.2H	9B	4.11A	5.6	1	0.75			11.46D	
0 - 0.1	6B 7.2H	9B	4.11A	5.6	1	0.75			11.46D	
0.1 - 0.3	8.4B 9.5H	29B	3.24E	7.87	0.69	3.08		14B	14.88D	22.00
0.1 - 0.3	8.4B 9.5H	29B	3.24E	7.87	0.69	3.08		14B	14.88D	22.00
0.1 - 0.3	8.4B 9.5H	29B	3.24E	7.87	0.69	3.08		14B	14.88D	22.00

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 - 0.1		1.57D							73I		5.5
21.5											
0 - 0.1		1.57D							73I		5.5
21.5											
0 - 0.1		1.57D							73I		5.5
21.5											
0.1 - 0.3	<2C	0.21D							51I		4
45											
0.1 - 0.3	<2C	0.21D							51I		4
45											
0.1 - 0.3	<2C	0.21D							51I		4
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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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

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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