Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0413** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 30/08/95
Map Ref.:
Northing/Long.: 6242900 AMG zone: 50
Easting/Lat.: 633150 Datum: AGD84
Locality:
Elevation: 280 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: 0 %
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 Mottled-Hypernatric Yellow Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; Field pH 6 (Raupach); Sharp, Smooth change to -

A2e 0.1 - 0.12 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Field pH 7 (Raupach); Abrupt, Wavy change to -

B21 0.12 - 0.25 m Light yellowish brown (10YR6/4-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach); Clear change to -

B22 0.25 - 0.4 m Pale yellow (2.5Y7/3-Moist); Mottles, 7.5YR54, 2-10% , 15-30mm, Faint; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 8.5 (Raupach); Gradual change to -

B23 0.4 - 0.6 m Pale yellow (2.5Y7/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

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 - 0.1	4.9B 6.1H	8B	2.07H	0.54	0.13	0.2	0.07J		2.94D	
0 - 0.1	4.9B 6.1H	8B	2.07H	0.54	0.13	0.2	0.07J		2.94D	
0.12 - 0.32	6.8B 8H	25B	2.21A	5.96	0.19	3.5			11.86D	
0.12 - 0.32	6.8B 8H	25B	2.21A	5.96	0.19	3.5			11.86D	
0.12 - 0.32	6.8B 8H	25B	2.21A	5.96	0.19	3.5			11.86D	

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		1.38D							92I		4.5
3.5											
0 - 0.1		1.38D							92I		4.5
3.5											
0.12 - 0.32	<2C	0.34D							63I		4.5
32.5											
0.12 - 0.32	<2C	0.34D							63I		4.5
32.5											
0.12 - 0.32	<2C	0.34D							63I		4.5
32.5											

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
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
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
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

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P10_NR_Z Silt (%) - Not recorded