Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0428** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 12/09/95
Map Ref.:
Northing/Long.: 6254440 AMG zone: 50
Easting/Lat.: 632355 Datum: AGD84
Locality:
Elevation: 318 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: Flat
Elem. Type: Valley flat
Slope: 0 %
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Calcic Hypernatric Grey 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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.25 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22k 0.25 - 0.5 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -

B23k 0.5 - 0.6 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Fine sandy light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0428** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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	6B 6.8H	19B	4.01A	4.23	0.33	1.08			9.65D	
0 - 0.08	6B 6.8H	19B	4.01A	4.23	0.33	1.08			9.65D	
0 - 0.08	6B 6.8H	19B	4.01A	4.23	0.33	1.08			9.65D	
0.08 - 0.28	8.5B 9.4H	52B	4.28E	8.4	0.69	5.06		19B	18.43D	26.63
0.08 - 0.28	8.5B 9.4H	52B	4.28E	8.4	0.69	5.06		19B	18.43D	26.63
0.08 - 0.28	8.5B 9.4H	52B	4.28E	8.4	0.69	5.06		19B	18.43D	26.63

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08		1.61D							78I		9
13											
0 - 0.08		1.61D							78I		9
13											
0 - 0.08		1.61D							78I		9
13											
0.08 - 0.28	2C	0.28D							57I		9
34											
0.08 - 0.28	2C	0.28D							57I		9
34											
0.08 - 0.28	2C	0.28D							57I		9
34											

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

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0428** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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