Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0514** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 03/07/96
Map Ref.:
Northing/Long.: 6294480 AMG zone: 50
Easting/Lat.: 611090 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: Flat
Elem. Type: Valley flat
Slope: 0 %

Relief: 25 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, angular, Quartz; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moist; Field pH 7 (Raupach); Abrupt, Wavy change to -

B21 0.1 - 0.4 m Yellowish brown (10YR5/8-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 8.5 (Raupach); Gradual change to -

B22k 0.4 - 0.5 m Brownish yellow (10YR6/8-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, Calcrete, coarse fragments; 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 Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.4B 6.4H	13B	4.93H	3.27	0.28	0.69			9.17D	
0 - 0.1	5.4B 6.4H	13B	4.93H	3.27	0.28	0.69			9.17D	
0.1 - 0.3	7.2B	25B	4.53E	6.18	0.4	3.82		17B	14.93D	22.47

0.1 - 0.3	8.4H 7.2B 8.4H	25B	4.53E	6.18	0.4	3.82		17B	14.93D	22.47

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.5D							72.5I		10
17.5											
0 - 0.1		1.5D							72.5I		10
17.5											
0.1 - 0.3	<2C	0.28D							50I		6.5
43.5											
0.1 - 0.3	<2C	0.28D							50I		6.5
43.5											

Laboratory Analyses Completed for this profile

15_NR_AL Aluminium Cation - meq per 100g of soil - Not recorded
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_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
P10_NR_Z Silt (%) - Not recorded