

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0330 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 02/08/95
Map Ref.:
Northing/Long.: 6247780 AMG zone: 50
Easting/Lat.: 602550 Datum: AGD84
Locality:
Elevation: 290 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: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 0 degrees

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: 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, angular, Quartz; 10-20%, , subangular, Quartz

Profile Morphology

A1 0 - 0.15 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
A2e 0.15 - 0.17 m Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; Field pH 6 (Raupach); Abrupt, Irregular change to -
B21 0.17 - 0.4 m Brown (7.5YR5/4-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; , 10YR54, 10-20% , 15-30mm, Faint; Sandy light medium clay; Strong grade of structure, Columnar; Rough-ped fabric; Very firm consistence; Field pH 7 (Raupach); Gradual change to -
B22k 0.4 - 0.6 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 5YR56, 20-50% , 5-15mm, Distinct; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

A2e This layer only present when clay is >15cm.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
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m	dS/m		Cmol (+)/kg					%	
0 - 0.15	5.3B 6.4H	12B	2.66H	0.87	0.09	0.55	0.04J	4.17D	
0 - 0.15	5.3B 6.4H	12B	2.66H	0.87	0.09	0.55	0.04J	4.17D	
0 - 0.15	5.3B 6.4H	12B	2.66H	0.87	0.09	0.55	0.04J	4.17D	
0.17 - 0.37	6.1B 7.3H	17B	2.32A	5.97	0.06	2.58		10.93D	
0.17 - 0.37	6.1B 7.3H	17B	2.32A	5.97	0.06	2.58		10.93D	
0.17 - 0.37	6.1B 7.3H	17B	2.32A	5.97	0.06	2.58		10.93D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.15 7		0.96D						89I	4
0 - 0.15 7		0.96D						89I	4
0 - 0.15 7		0.96D						89I	4
0.17 - 0.37 34		0.27D						62.5I	3.5
0.17 - 0.37 34		0.27D						62.5I	3.5
0.17 - 0.37 34		0.27D						62.5I	3.5

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 for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_MN	salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15L1_a	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
Sum of Cations	Sum of Bases
15N1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_b	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
4_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4B1	Electrical conductivity or soluble salts - Not recorded
6A1_UC	pH of soil - Not recorded
P10_gt2m	pH of 1:5 soil/0.01M calcium chloride extract - direct
	Organic carbon (%) - Uncorrected Walkley and Black method
	> 2mm particle size analysis, (method not recorded)

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P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		