

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0357 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 07/08/95
Map Ref.:
Northing/Long.: 6243460 AMG zone: 50
Easting/Lat.: 598305 Datum: AGD84
Locality:
Elevation: 280 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: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Mesonatric Yellow Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.43
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subangular, Quartz; 2-10%, , subangular, Quartz

Profile Morphology

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 5.5 (Raupach);
 Sharp, Wavy change to -
A2e 0.1 - 0.12 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6.5 (Raupach); Sharp, Irregular change to -
B21 0.12 - 0.45 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Distinct; Sandy medium clay;
 Strong grade of structure, Columnar; Moist; Weak consistence; Field pH 8 (Raupach);
 Gradual change to -
B22 0.45 - 0.6 m Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Fine sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

A2e Not always present.

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
m		dS/m				Cmol (+)/kg				%

0 - 0.1	4.4B 5.5H	8B	1.36H	0.32	0.17	0.18	0.27J	2.03D
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0 - 0.1	4.4B 5.5H	8B	1.36H	0.32	0.17	0.18	0.27J	2.03D
0.1 - 0.12								
0.12 - 0.32	5.6B 6.8H	18B	1.66A	4.68	0.12	2.33		8.79D
0.12 - 0.32	5.6B 6.8H	18B	1.66A	4.68	0.12	2.33		8.79D
0.12 - 0.32	5.6B 6.8H	18B	1.66A	4.68	0.12	2.33		8.79D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1 4		1.15D							93I		3
0 - 0.1 4		1.15D							93I		3
0 - 0.1 4		1.15D							93I		3
0.1 - 0.12											
0.12 - 0.32 41		0.33D							55I		4
0.12 - 0.32 41		0.33D							55I		4
0.12 - 0.32 41		0.33D							55I		4

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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
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

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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