

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0315 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 31/07/95
Map Ref.:
Northing/Long.: 6249530 AMG zone: 50
Easting/Lat.: 625970 Datum: AGD84
Locality:
Elevation: 320 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: 15 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic 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

A1 0 - 0.08 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 6.5
 (Raupach);
 A2e 0.08 - 0.14 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 6
 (Raupach); Abrupt, Irregular change to -
 B21 0.14 - 0.4 m Greyish brown (2.5Y5/2-Moist); , 0-0% ; Sandy medium clay; Strong grade of structure, Columnar;
 Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 6.5 (Raupach);
 Clear change to -
 B22 0.4 - 0.6 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped
 fabric; Dry; Strong consistence; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0315 **Observation** 1
Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na Cmol (+)/kg				%
0 - 0.08	5.6B	16B	2.41A	0.77	0.3	0.27			3.75D	

0 - 0.08	6.5H 5.6B	16B	2.41A	0.77	0.3	0.27	3.75D
0 - 0.08	6.5H 5.6B	16B	2.41A	0.77	0.3	0.27	3.75D
0.14 - 0.34	6.5H 5.7B	24B	2.06A	5.77	0.26	2.34	10.43D
0.14 - 0.34	6.8H 5.7B	24B	2.06A	5.77	0.26	2.34	10.43D
0.14 - 0.34	6.8H 5.7B	24B	2.06A	5.77	0.26	2.34	10.43D
	6.8H						

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.08		1.33D						94I 3.5
2.5								
0 - 0.08		1.33D						94I 3.5
2.5								
0 - 0.08		1.33D						94I 3.5
2.5								
0.14 - 0.34		0.29D						60I 5.5
34.5								
0.14 - 0.34		0.29D						60I 5.5
34.5								
0.14 - 0.34		0.29D						60I 5.5
34.5								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15J_BASES	Sum of Bases
15L1_a	Sum of Cations
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	Organic carbon (%) - Uncorrected Walkley and Black method
P10_NR_C	> 2mm particle size analysis, (method not recorded)
P10_NR_S	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded
	Silt (%) - Not recorded