

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0273 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 24/07/95
Map Ref.:
Northing/Long.: 6290260 AMG zone: 50
Easting/Lat.: 615220 Datum: AGD84
Locality:
Elevation: 370 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

Exposure Type: 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: Crest
Elem. Type: Hillcrest
Slope: 0 %
Relief: 10 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Poached, Hardsetting

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

Soil Classification

Australian Soil Classification: Mesotrophic Mottled-Hypernatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg2.12
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; No surface coarse fragments

Profile Morphology

A1 0 - 0.04 m Grey (2.5Y5/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Wet; Field pH 6 (Raupach);
 Abrupt, Irregular change to -
 B2 0.04 - 0.4 m Light grey (10YR7/2-Moist); Mottles, 5YR56, 20-50% , 30-mm, Distinct; Medium heavy clay; Strong
 grade of structure; Smooth-ped fabric; Moderately moist; Field pH 7.5 (Raupach); Clear change to -
 B3 0.4 - 0.6 m Light grey (10YR7/2-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade
 of structure; Smooth-ped fabric; Moderately moist; Field pH 7 (Raupach);

Morphological Notes

B2 Kaolinitic clay.
 B3 Kaolinitic clay - slight dispersion.

Observation Notes

Site Notes

"Hardsetting grey clay" - cotula on surface - shows white on B+W 1984 photo.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.04	5.4B 6.7H	18B	1.99A	1.84	0.18	1.28			5.29D	
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0 - 0.04	5.4B 6.7H	18B	1.99A	1.84	0.18	1.28	5.29D
0.04 - 0.24	6.2B 7.4H	26B	1.01A	3.22	0.1	2.35	6.68D
0.04 - 0.24	6.2B 7.4H	26B	1.01A	3.22	0.1	2.35	6.68D
0.04 - 0.24	6.2B 7.4H	26B	1.01A	3.22	0.1	2.35	6.68D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.04 14.5		2.05D						79.5I 6
0 - 0.04 14.5		2.05D						79.5I 6
0 - 0.04 14.5		2.05D						79.5I 6
0.04 - 0.24 59		0.44D						37.5I 3.5
0.04 - 0.24 59		0.44D						37.5I 3.5
0.04 - 0.24 59		0.44D						37.5I 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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	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
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