

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0248 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 18/07/95
Map Ref.:
Northing/Long.: 6251320 AMG zone: 50
Easting/Lat.: 610470 Datum: AGD84
Locality:
Elevation: 310 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: Flat
Elem. Type: Valley flat
Slope: 0 %
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Subnatric 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 Black (10YR2/1-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moist; Weak consistence;
 Field pH 6 (Raupach); Abrupt, Wavy change to -
 B21 0.08 - 0.5 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
 ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm),
 Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
 B22k 0.5 - 0.7 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
 Rough-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Calcrete,
 coarse fragments; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B22k Duplication--"common" carbonate "nodules" removed from segregations table

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 - 0.08	5.4B	8B	3.82A	3.08	0.33	0.46			7.69D	

0 - 0.08	6.6H 5.4B	8B	3.82A	3.08	0.33	0.46			7.69D	
0 - 0.08	6.6H 5.4B	8B	3.82A	3.08	0.33	0.46			7.69D	
0.08 - 0.28	6.6H 7.8B	20B	5.07E	6.33	0.29	1.73		14B	13.42D	12.36
0.08 - 0.28	8.9H 7.8B	20B	5.07E	6.33	0.29	1.73		14B	13.42D	12.36
0.08 - 0.28	8.9H 7.8B	20B	5.07E	6.33	0.29	1.73		14B	13.42D	12.36

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 - 0.08 16		1.19D						77I	7
0 - 0.08 16		1.19D						77I	7
0 - 0.08 16		1.19D						77I	7
0.08 - 0.28 34	<2C	0.13D						60.5I	5.5
0.08 - 0.28 34	<2C	0.13D						60.5I	5.5
0.08 - 0.28 34	<2C	0.13D						60.5I	5.5

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 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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BA	Sum of Bases
15L1_a 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
19B_N	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_N	Calcium Carbonate (CaCO ₃) - Not recorded
	Electrical conductivity or soluble salts - Not recorded

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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