

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0438 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 13/09/95
Map Ref.:
Northing/Long.: 6261050 AMG zone: 50
Easting/Lat.: 636685 Datum: AGD84
Locality:
Elevation: 300 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
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:
 Epibasic Pedal Calcic Calcarosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uf6.13
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 - 0.05 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Moderately moist;
		Field pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.05 - 0.45 m	Grey (2.5Y6/1-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Dry;
		10-20%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; Common cutans, 10-50%
		of ped faces or walls coated; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil
		matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -
B22	0.45 - 0.6 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
		Rough-ped fabric; Dry; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments;
		Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Slickensides common.

Observation Notes

Site Notes

Field texture (not PSA) indicates a Grey non-cracking clay. Also is a Calcarosol.

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0438 **Observation** 1
Agency Name:

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na	Acidity			%
						Cmol (+)/kg				
0 - 0.05	5.9B 6.6H	14B	6.05A	3.77	0.9	0.5			11.22D	

0 - 0.05	5.9B 6.6H	14B	6.05A	3.77	0.9	0.5			11.22D	
0 - 0.05	5.9B 6.6H	14B	6.05A	3.77	0.9	0.5			11.22D	
0.05 - 0.25	8.3B 9.1H	22B	10.99E	5.88	1.53	1.5		21B	19.9D	7.14
0.05 - 0.25	8.3B 9.1H	22B	10.99E	5.88	1.53	1.5		21B	19.9D	7.14
0.05 - 0.25	8.3B 9.1H	22B	10.99E	5.88	1.53	1.5		21B	19.9D	7.14

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.05 25.5		1.8D								68I		6.5
0 - 0.05 25.5		1.8D								68I		6.5
0 - 0.05 25.5		1.8D								68I		6.5
0.05 - 0.25 48.5	7C	0.18D								47I		4.5
0.05 - 0.25 48.5	7C	0.18D								47I		4.5
0.05 - 0.25 48.5	7C	0.18D								47I		4.5

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 salts
15A1_CEC for soluble	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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG soluble salts	Exchangeable bases and 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 soluble salts
15J_BAESS	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
19B_NRR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NRR	Electrical conductivity or soluble salts - Not recorded

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0438 **Observation** 1
Agency Name: Agriculture Western Australia

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