

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0408 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 30/08/95
Map Ref.:
Northing/Long.: 6237400 AMG zone: 50
Easting/Lat.: 638300 Datum: AGD84
Locality:
Elevation: 280 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well 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: 5 metres
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypercalcic Subnatric Red Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uf6.12
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 - 0.07 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Clay loam, sandy; Moderate grade of structure, 50-100 mm,
 Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; Field pH 6 (Raupach);
 Clear change to -
 B21 0.07 - 0.25 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure;
 Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Highly calcareous; Field pH 9 (Raupach); Clear change to -
 B22k 0.25 - 0.35 m Yellowish red (5YR4/6-Moist); , 0-0% ; Heavy clay; Moderate grade of structure; Rough-ped fabric; Dry;
 Strong consistence; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site on a dolerite dyke trending east to west - few other dykes in the area.

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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 - 0.07	6.2B 6.9H	18B	9.4A	7.73	1.12	1.2			19.45D	
0 - 0.07	6.2B	18B	9.4A	7.73	1.12	1.2			19.45D	

0.07 - 0.25	6.9H 8.1B 9.1H	33B	12.57E	12.87	0.5	4.19		29B	30.13D	14.45
0.07 - 0.25	8.1B 9.1H	33B	12.57E	12.87	0.5	4.19		29B	30.13D	14.45

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 - 0.07 21		3.11D							71I		8
0 - 0.07 21		3.11D							71I		8
0.07 - 0.25	5C	1.24D							50.1I		
0.07 - 0.25	5C	1.24D							50.1I		

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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

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P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		
P10_NR_ZC	Silt + clay (%) - Not recorded		