

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0447 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 14/09/95
Map Ref.:
Northing/Long.: 6268850 AMG zone: 50
Easting/Lat.: 635260 Datum: AGD84
Locality:
Elevation: 320 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: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 1 %
Pattern Type: Rises
Relief: 15 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypercalcic Subnatric Yellow Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.43
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 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Field pH 6
		(Raupach); Abrupt, Wavy change to -
A2e	0.1 - 0.12 m	Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Field pH 6.5
		(Raupach); Abrupt, Wavy change to -
B1	0.12 - 0.4 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Sandy loam; Weak grade of structure; Rough-ped fabric; Moderately moist; Field pH 7.5 (Raupach); Gradual change to -
B2k	0.4 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR58, 2-10% , 15-30mm, Distinct; Clay loam, coarse sandy; Weak grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	5.3B	7B	2.45A	1.26	0.16	0.18			4.05D	
	6.5H									
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0 - 0.1	5.3B 6.5H	7B	2.45A	1.26	0.16	0.18			4.05D	
0.12 - 0.32	7.8B 8.6H	17B	1.56E	1.82	0.06	0.64		5B	4.08D	12.80
0.12 - 0.32	7.8B 8.6H	17B	1.56E	1.82	0.06	0.64		5B	4.08D	12.80
0.12 - 0.32	7.8B 8.6H	17B	1.56E	1.82	0.06	0.64		5B	4.08D	12.80

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 - 0.1 10		1.22D							87I		3
0 - 0.1 10		1.22D							87I		3
0 - 0.1 10		1.22D							87I		3
0.12 - 0.32 20	<2C	0.33D							77.5I		2.5
0.12 - 0.32 20	<2C	0.33D							77.5I		2.5
0.12 - 0.32 20	<2C	0.33D							77.5I		2.5

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
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,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
19B_NR	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
	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