

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0269 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 24/07/95
Map Ref.:
Northing/Long.: 6291730 AMG zone: 50
Easting/Lat.: 622050 Datum: AGD84
Locality:
Elevation: 310 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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 Cryptogam surface, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Hypernatric Brown Sodosol
ASC Confidence: Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy2.23
Great Soil Group: N/A

Site Disturbance No effective disturbance. Natural

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.03 m Brown (10YR4/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moderately moist; Field pH 6
 (Raupach); Abrupt, Smooth change to -
 A2 0.03 - 0.1 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Field pH 6.5 (Raupach);
 Wavy change to -
 B21 0.1 - 0.4 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
 fabric; Dry; Field pH 8 (Raupach); Clear change to -
 B22k 0.4 - 0.42 m Yellowish brown (10YR5/5-Moist); , 0-0% ; Sandy light medium clay; Dry; Soil matrix is Slightly
 calcareous; Field pH 9 (Raupach);

Morphological Notes

B22k Main calcareous layer below 40cm.

Observation Notes

Site Notes

Site in nature reserve along Kuringup South Road.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Na	Acidity			%
					Cmol (+)/kg				
0 - 0.03	5.2B	6B	2.82H	2.04	0.14	0.28	0.04J	5.28D	
	6.3H								
0 - 0.03	5.2B	6B	2.82H	2.04	0.14	0.28	0.04J	5.28D	
	6.3H								
0 - 0.03	5.2B	6B	2.82H	2.04	0.14	0.28	0.04J	5.28D	
	6.3H								

0.03 - 0.1	5.6B 6.7H	9B	1.24A	1.7	0.04	0.47	3.45D
0.03 - 0.1	5.6B 6.7H	9B	1.24A	1.7	0.04	0.47	3.45D
0.03 - 0.1	5.6B 6.7H	9B	1.24A	1.7	0.04	0.47	3.45D
0.1 - 0.3	6.7B 7.7H	42B	1.32A	6.1	0.16	2.76	10.34D
0.1 - 0.3	6.7B 7.7H	42B	1.32A	6.1	0.16	2.76	10.34D
0.1 - 0.3	6.7B 7.7H	42B	1.32A	6.1	0.16	2.76	10.34D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS	%
0 - 0.03 12		1.54D						81.5I	6.5
0 - 0.03 12		1.54D						81.5I	6.5
0 - 0.03 12		1.54D						81.5I	6.5
0.03 - 0.1 9		0.74D						85.5I	5.5
0.03 - 0.1 9		0.74D						85.5I	5.5
0.03 - 0.1 9		0.74D						85.5I	5.5
0.1 - 0.3 32		0.56D						63.5I	4.5
0.1 - 0.3 32		0.56D						63.5I	4.5
0.1 - 0.3 32		0.56D						63.5I	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 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts 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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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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
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