

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0440 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 13/09/95 **Elevation:** 320 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6264880 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 637320 Datum: AGD84 **Drainage:** Moderately well drained

Geology

ExposureType: Auger boring **Conf. Sub. is Parent. Mat.:** No Data
Geol. Ref.: No Data **Substrate Material:** No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Crest **Relief:** 10 metres
Elem. Type: Hillcrest **Slope Category:** No Data
Slope: 0 % **Aspect:** No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Eutrophic Mottled-Hypernatric Grey Sodosol **Principal Profile Form:** Dy3.42
ASC Confidence: **Great Soil Group:** N/A
 All necessary analytical data are available.

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 - 0.09 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 5.5
 (Raupach);
 Sharp, Smooth change to -
 A2e 0.09 - 0.1 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure;
 Moist; Field pH 6
 (Raupach); Abrupt, Wavy change to -
 B21 0.1 - 0.35 m Pale brown (10YR6/3-Moist); Mottles, 5YR56, 20-50% , 5-15mm, Distinct; Sandy medium
 clay; Moderate
 grade of structure, Columnar; Moderately moist; Field pH 6 (Raupach); Clear change to -
 B22 0.35 - 0.5 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of
 structure;
 Moderately moist; Field pH 7.5 (Raupach); Abrupt change to -
 B3 0.5 - 0.6 m Light grey (2.5Y7/2-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Dry;
 Field pH 7.5
 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.09	4.5B 5.6H	11B	1.64H	0.62	0.18	0.16	0.14J	2.6D	

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0 - 0.09	4.5B 5.6H	11B	1.64H	0.62	0.18	0.16	0.14J	2.6D
0.1 - 0.3	5.3B 6.6H	15B	1.08A	4.14	0.04	2.08		7.34D
0.1 - 0.3	5.3B 6.6H	15B	1.08A	4.14	0.04	2.08		7.34D
0.1 - 0.3	5.3B 6.6H	15B	1.08A	4.14	0.04	2.08		7.34D

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 - 0.09 4.5		1.59D						90.5I 5
0 - 0.09 4.5		1.59D						90.5I 5
0 - 0.09 4.5		1.59D						90.5I 5
0.1 - 0.3 33		0.47D						62I 5
0.1 - 0.3 33		0.47D						62I 5
0.1 - 0.3 33		0.47D						62I 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
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
15J_BASES	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
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)

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P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		