

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0450 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 14/09/95 **Elevation:** 320 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6270470 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 637850 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: Mid-slope **Relief:** 10 metres
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 2 % **Aspect:** 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Hypocalcic Mesonatric Yellow Sodosol **Principal Profile Form:** Dy2.13
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 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Massive grade of structure;
 Moderately moist; Field pH 6 (Raupach); Abrupt, Wavy change to -

 B21 0.1 - 0.3 m Brownish yellow (10YR6/6-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Faint; Sandy
 medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 8
 (Raupach); Clear change to -

 B22 0.3 - 0.6 m Yellow (2.5Y7/5-Moist); Mottles, 7.5YR56, 2-10% , 5-15mm, Distinct; Light medium clay;
 Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is
 Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site along Ongerup/Pingrup Road - not gravelly soil - "hardsetting grey clay".

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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	5B 6.4H	6B	1.34H	0.83	0.12	0.25	0.1J		2.54D	
0 - 0.1	5B 6.4H	6B	1.34H	0.83	0.12	0.25	0.1J		2.54D	
0 - 0.1	5B	6B	1.34H	0.83	0.12	0.25	0.1J		2.54D	

0.1 - 0.3	6.4H 7B 8.4H	16B	1.46E	5.93	0.32	2.88		13B	10.59D	22.15
0.1 - 0.3	7B 8.4H	16B	1.46E	5.93	0.32	2.88		13B	10.59D	22.15
0.1 - 0.3	7B 8.4H	16B	1.46E	5.93	0.32	2.88		13B	10.59D	22.15

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 5		1.03D							91.5l		3.5
0 - 0.1 5		1.03D							91.5l		3.5
0 - 0.1 5		1.03D							91.5l		3.5
0.1 - 0.3 34	<2C	0.3D							62.5l		3.5
0.1 - 0.3 34	<2C	0.3D							62.5l		3.5
0.1 - 0.3 34	<2C	0.3D							62.5l		3.5

Laboratory Analyses Completed for this profile

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
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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	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

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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