

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0525 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 04/07/96 **Elevation:** 285 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6293690 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 628900 Datum: AGD84 **Drainage:** Imperfectly 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 plains <9m 1-3% **Pattern Type:** Rises

Morph. Type: Flat **Relief:** 5 metres
Elem. Type: Plain **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
 Calcic Mesonatric Grey 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 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

Ap 0 - 0.12 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
 B21 0.12 - 0.35 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
 B22k 0.35 - 0.4 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

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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 - 0.12	5.5B 6.7H	10B	2.43A	0.83	0.53	0.48		4.27D	
0 - 0.12	5.5B	10B	2.43A	0.83	0.53	0.48		4.27D	

0.12 - 0.32	6.7H 8.4B 9.4H	44B	3.14E	6.01	1.58	3.56		15B	14.29D	23.73
0.12 - 0.32	8.4B 9.4H	44B	3.14E	6.01	1.58	3.56		15B	14.29D	23.73

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.12 7		0.81D								89I		4
0 - 0.12 7		0.81D								89I		4
0.12 - 0.32 43	<2C	0.15D								54I		3
0.12 - 0.32 43	<2C	0.15D								54I		3

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
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K 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
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
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
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded