

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0406 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	30/08/95	Elevation:	290 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6240750 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	636200 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:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypocalcic Hypernatric Brown Sodosol	Principal Profile Form:	Dy2.43
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 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; 20-50%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Water repellent; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A2e	0.1 - 0.12 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%,
		fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
B21	0.12 - 0.4 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric;
		Moderately moist; Very firm consistence; Field pH 8.5 (Raupach); Gradual change to -
B22	0.4 - 0.55 m	Light brownish grey (2.5Y6/3-Moist); , 10YR53, 2-10% , 15-30mm, Distinct; Light medium clay; Weak
		grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

A1	Medium to coarse sand.
A2e	Medium to coarse sand.
B22	Very slight dispersion.

Observation Notes

Site Notes

Penetrometer readings of surface (kg/cm²): 2, 4.5, 2.9, 2.5, 3.6, 2.9, 4.6 - "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	5.1B 6.3H	8B	2.16H	0.71	0.27	0.23	0.06J		3.37D	
0 - 0.1	5.1B 6.3H	8B	2.16H	0.71	0.27	0.23	0.06J		3.37D	
0 - 0.1	5.1B 6.3H	8B	2.16H	0.71	0.27	0.23	0.06J		3.37D	
0.12 - 0.32	7.1B 8.1H	44B	1.77E	5.12	0.61	4.13		15B	11.63D	27.53
0.12 - 0.32	7.1B 8.1H	44B	1.77E	5.12	0.61	4.13		15B	11.63D	27.53
0.12 - 0.32	7.1B 8.1H	44B	1.77E	5.12	0.61	4.13		15B	11.63D	27.53

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 - 0.1 3		1.37D						92I 5
0 - 0.1 3		1.37D						92I 5
0 - 0.1 3		1.37D						92I 5
0.12 - 0.32 35.5	<2C	0.28D						58.5I 6
0.12 - 0.32 35.5	<2C	0.28D						58.5I 6
0.12 - 0.32 35.5	<2C	0.28D						58.5I 6

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
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