

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0449 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	14/09/95	Elevation:	310 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6268840 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	638035 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypocalcic Hypernatric Brown Sodosol	Principal Profile Form:	Dy4.43
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist;
		Field pH 6 (Raupach); Abrupt, Smooth change to -
A2e	0.12 - 0.16 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist;
		Field pH 6.5 (Raupach); Abrupt, Wavy change to -
B21	0.16 - 0.3 m	Yellowish brown (10YR5/5-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Distinct; Sandy medium clay;
		Strong grade of structure; Rough-ped fabric; Dry; Firm consistence; Field pH 7 (Raupach); Clear
		change to -
B22	0.3 - 0.6 m	Olive yellow (2.5Y6/6-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
		Gradual change
		to -
B23	0.6 - 0.8 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure;
		Slightly
		Moderate grade of structure; Rough-ped fabric; Dry; Weak consistence; Soil matrix is calcareous; Field pH 9 (Raupach); Abrupt change to -

Morphological Notes

B21 Depth to clay varies from <10cm to >15cm.

Observation Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.12	4.7B 6.1H	7B	2.14H	0.8	0.08	0.37	0.17J		3.39D	
0 - 0.12	4.7B 6.1H	7B	2.14H	0.8	0.08	0.37	0.17J		3.39D	
0 - 0.12	4.7B 6.1H	7B	2.14H	0.8	0.08	0.37	0.17J		3.39D	
0.16 - 0.36	6.6B 8H	16B	1.73A	5.88	0.05	3.17			10.83D	
0.16 - 0.36	6.6B 8H	16B	1.73A	5.88	0.05	3.17			10.83D	
0.16 - 0.36	6.6B 8H	16B	1.73A	5.88	0.05	3.17			10.83D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.12 7.5		1.33D							88.5I		4
0 - 0.12 7.5		1.33D							88.5I		4
0 - 0.12 7.5		1.33D							88.5I		4
0.16 - 0.36 38	<2C	0.39D							59I		3
0.16 - 0.36 38	<2C	0.39D							59I		3
0.16 - 0.36 38	<2C	0.39D							59I		3

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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_MN	salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15L1_a Sum of Cations	Sum of Bases
15N1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_b	and measured clay
19B_NRR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NRR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NRR	Calcium Carbonate (CaCO3) - Not recorded
4B1	Electrical conductivity or soluble salts - Not recorded
6A1_UC	pH of soil - Not recorded
	pH of 1:5 soil/0.01M calcium chloride extract - direct
	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