

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0462 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 18/09/95 **Elevation:** 285 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6284335 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 635330 Datum: AGD84 **Drainage:** Poorly 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% plain **Pattern Type:** Lacustrine

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: Calcareous Dermosolic Salic Hydrosol **Mapping Unit:** N/A
ASC Confidence: All necessary analytical data are available. **Principal Profile Form:** Uf6.13
Great Soil Group: N/A

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 - 0.07 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Light clay; Massive grade of structure; Dry; Field pH 7.5 (Raupach); Abrupt, Wavy change to -
 B21 0.07 - 0.3 m Brown (10YR4/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
 B22k 0.3 - 0.6 m Greyish brown (2.5Y5/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 20-50%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 [note PSA 24% caly]

Observation Notes

Site Notes

Site is on a slight depression north of small lake/swamp. Recorded as a variant of Brynie 7.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Na			%
						Acidity			
						Cmol (+)/kg			
0 - 0.07	6.9B	18B	8.33A	7.2	3.2	1.96		20.69D	
	7.9H								
0 - 0.07	6.9B	18B	8.33A	7.2					

0 - 0.07	7.9H 6.9B	18B	8.33A	7.2	3.2	1.96			20.69D	
0.07 - 0.27	7.9H 7.9B 8.6H	96B	6.57E	7.67	3.52	3.96		23B	21.72D	17.22
0.07 - 0.27	7.9B 8.6H	96B	6.57E	7.67	3.52	3.96		23B	21.72D	17.22
0.07 - 0.27	7.9B 8.6H	96B	6.57E	7.67	3.52	3.96		23B	21.72D	17.22

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	% Clay	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07 24		2.12D							51I		25
0 - 0.07 24		2.12D							51I		25
0 - 0.07 24		2.12D							51I		25
0.07 - 0.27 54	<2C	0.74D							25I		21
0.07 - 0.27 54	<2C	0.74D							25I		21
0.07 - 0.27 54	<2C	0.74D							25I		21

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 (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
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	soluble salts
15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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_BA	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
19B_N	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_N	Calcium Carbonate (CaCO3) - Not recorded
	Electrical conductivity or soluble salts - Not recorded

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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