Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0197 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:05/07/95Elevation:305 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6257800 AMG zone: 50 Runoff: No Data
Easting/Lat.: 606115 Datum: AGD84 Drainage: Poorly drained

<u>Geology</u>

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

Landform

Rel/Slope Class: Alluvial plain Level plain <9m <1% Pattern Type: Relief. Morph. Type: 5 metres Flat 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/AHypocalcic Hypernatric Grey SodosolPrincipal Profile Form:Dy2.13ASC Confidence:Great Soil Group:N/A

All necessary analytical data are available. **Site Disturbance** Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0%; Sandy loam; Weak grade of structure,

Subangular

blocky; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Field pH 6

(Raupach);

Abrupt, Wavy change to -

3 1, 4, 5, 7, 8, 9

B21 0.1 - 0.5 m structure;

 $\label{light brownish grey (2.5Y6/3-Moist); 0.0\%; Sandy light medium clay; Moderate grade of the control of t$

Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH

8.5 (Raupach);

Gradual change to -

B22 0.5 - 0.9 m

medium clay;

Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR58, 0-2%, 0-5mm, Distinct; Sandy Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is

Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

B21 pH 9 at 40-50cm.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	o u	9	••	Cmol				%
0 - 0.1	4.8B 5.8H 4.8B	20B	2.89H	1.55	0.08	0.76	0.15J		5.28D	

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0.1 - 0.3	6.5B 7.6H	28B	2.29A	5.52	0.07	3.16		11.04D
0.1 - 0.3	6.5B 7.6H	28B	2.29A	5.52	0.07	3.16		11.04D
0.1 - 0.3	6.5B 7.6H	28B	2.29A	5.52	0.07	3.16		11.04D
0.15 - 0.25 0.4 - 0.5	6.8B 7.6B							

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size GV CS FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%	
0 - 0.1 11		1.91D						831	6
0 - 0.1 11		1.91D						831	6
0 - 0.1 11		1.91D						831	6
0 - 0.1 11		1.91D						831	6
0.1 - 0.3 33.5		0.31D						61.5l	5
0.1 - 0.3 33.5		0.31D						61.5l	5
0.1 - 0.3 33.5		0.31D						61.5l	5
0.15 - 0.25 0.4 - 0.5									

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15E1_AL	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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

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Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases 15E1_MN 15E1_NA 15J_BASES

Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 15L1_a

Sum of Cations

and measured clay

15N1_a

Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 15N1_b

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 P10_NR_C > 2mm particle size analysis, (method not recorded)

Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded P10_NR_S P10_NR_Z