Project Name: Nyabing Kukerin land resourcs survey

Project Code: Observation ID: 1 NYA Site ID: 0214

Agency Name: Agriculture Western Australia

Site Information

Desc. By: **Heather Percy** Locality: Date Desc.: 12/07/95

Map Ref.:

Elevation: 320 metres Rainfall: No Data No Data

Northing/Long.: 6254175 AMG zone: 50 Easting/Lat.: 614035 Datum: AGD84

Runoff: 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: Mid-slope Relief: 10 metres Hillslope Slope Category: No Data Elem. Type: Slope: 1 % Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Mapping Unit: N/A **Principal Profile Form:** Dg2.22 Mesotrophic Mottled-Mesonatric Grey Sodosol **ASC Confidence: Great Soil Group:** N/A

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

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

Very dark grey (10YR3/1-Moist); , 0-0%; Clayey sand; Single grain grade of structure; 0 - 0.1 m

Moist; Field pH 6

(Raupach); Abrupt, Wavy change to -

Greyish brown (10YR5/2-Moist); , 0-0%; Clayey sand; Massive grade of structure; Moist; A2 0.1 - 0.15 m

Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.15 - 0.3 m White (2.5Y8/2-Moist); Mottles, 7.5YR56, 10-20%, 15-30mm, Distinct; Sandy light

medium clay;

Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 8 (Raupach);

Clear change

B22 0.3 - 0.5 m White (2.5Y8/1-Moist); Mottles, 7.5YR56, 2-10%, 5-15mm, Distinct; Sandy medium clay;

Moderate

grade of structure; Rough-ped fabric; Moderately moist; Field pH 8.5 (Raupach); Gradual

change to -

Light grey (2.5Y7/1-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; Sandy light medium B23 0.5 - 0.65 m

clay; Moderate

change to -

grade of structure; Rough-ped fabric; Moderately moist; Field pH 8 (Raupach); Clear

0.65 - 0.7 m

Pinkish grey (7.5YR7/2-Moist); Mottles, 10YR81, 10-20%, 15-30mm, Distinct; , 2.5YR36,

10-20%, 0-

5mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH

8 (Raupach);

Morphological Notes

Not always present. Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay".

Project Name: Nyabing Kukerin land resourcs survey
Project Code: NYA Site ID: 0214
Agency Name: Agriculture Western Australia Observation

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	wig	K		(+)/kg			%
0 - 0.1	5B 5.8H 5.1B	21B	3.92H	1.61	0.22	0.37	0.11J		6.12D	
0 - 0.1	5B 5.8H 5.1B	21B	3.92H	1.61	0.22	0.37	0.11J		6.12D	
0 - 0.1	5B 5.8H 5.1B	21B	3.92H	1.61	0.22	0.37	0.11J		6.12D	
0 - 0.1	5B 5.8H 5.1B	21B	3.92H	1.61	0.22	0.37	0.11J		6.12D	
0.15 - 0.35	7B 8H	24B	0.89A	2.69	0.05	1.27			4.9D	
0.15 - 0.35	7B 8H	24B	0.89A	2.69	0.05	1.27			4.9D	
0.15 - 0.35	7B 8H	24B	0.89A	2.69	0.05	1.27			4.9D	
0.15 - 0.25 0.4 - 0.5	6.8B 7.1B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV P	article Size	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 11.5		1.9D							84.5I	4
0 - 0.1 11.5		1.9D							84.51	4
0 - 0.1 11.5		1.9D							84.51	4
0 - 0.1 11.5		1.9D							84.51	4
0.15 - 0.35 41.5	<2C	0.19D							571	1.5
0.15 - 0.35 41.5	<2C	0.19D							571	1.5
0.15 - 0.35 41.5 0.15 - 0.25 0.4 - 0.5	<2C	0.19D							571	1.5

Laboratory Analyses Completed for this profile

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

15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	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

Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0214 Observation 1

Agency Name: Agriculture Western Australia

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

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 Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded 15N1_b 19B_NR

3_NR 4_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 4B1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

P10_gt2m > 2mm particle size analysis, (method not recorded)

Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded P10_NR_C P10_NR_S P10_NR_Z