Project Name: Nyabing Kukerin land resourcs survey

Project Code: Observation ID: 1 NYA Site ID: 0372

Agency Name: Agriculture Western Australia

Site Information

Desc. By: **Heather Percy** Locality: Elevation:

Date Desc.: 08/08/95 Map Ref.:

250 metres Rainfall: No Data 6236150 AMG zone: 50 Runoff: No Data

Northing/Long.: Easting/Lat.: 604900 Datum: AGD84 Drainage: Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type: Mid-slope Relief: 5 metres Elem. Type: Hillslope Slope Category: No Data Aspect: Slope: 1 % 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Mapping Unit: N/A **Principal Profile Form:** Dy2.13 Hypocalcic Mesonatric Yellow 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, subrounded, ; No surface coarse fragments

Profile Morphology

0 - 0.08 m

Dark grey (10YR4/1-Moist); , 0-0%; Sandy loam; Massive grade of structure; Moderately moist; Weak

consistence; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field

pH 6 (Raupach);

Abrupt, Wavy change to -

0.08 - 0.4 m B21

light medium

Light yellowish brown (2.5Y6/4-Moist); Mottles, 5YR56, 2-10%, 5-15mm, Distinct; Sandy

clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence;

Soil matrix is

Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22k $0.4 - 0.6 \, \text{m}$

of structure;

Light yellowish brown (2.5Y6/4-Moist); , 0-0%; Sandy light medium clay; Moderate grade

Rough-ped fabric; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm,

subrounded, Calcrete,

coarse fragments; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

??Duplicate--"common" carbonate "nodules" removed from segregations table

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

CEC **ECEC ESP** Depth Ηα 1:5 EC **Exchangeable Cations** Exchangeable Ca Mg Κ Na Acidity dS/m m Cmol (+)/kg % 0 - 0.08 5.3B 0.24 <0.02J 8.46D 32B 5.43H 2.49 0.3

	5.8H									
0 - 0.08	5.3B	32B	5.43H	2.49	0.24	0.3	<0.02J		8.46D	
	5.8H									
0 - 0.08	5.3B	32B	5.43H	2.49	0.24	0.3	<0.02J		8.46D	
	5.8H									
0.08 - 0.3	7.4B	26B	2.73E	7.26	0.11	3.3		16B	13.4D	20.63
	8.5H									
0.08 - 0.3	7.4B	26B	2.73E	7.26	0.11	3.3		16B	13.4D	20.63
	8.5H									
0.08 - 0.3	7.4B	26B	2.73E	7.26	0.11	3.3		16B	13.4D	20.63
	8.5H									
	2.0									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle : CS	Size <i>F</i> FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 14		1.1D							811		5
0 - 0.08 14		1.1D							811		5
0 - 0.08 14		1.1D							811		5
0.08 - 0.3 34.5	<2C	0.15D							62.51		3
0.08 - 0.3 34.5	<2C	0.15D							62.5I		3
0.08 - 0.3 34.5	<2C	0.15D							62.51		3

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	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+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
15E1_AL 15E1_CA salts 15E1_K	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG 15E1_MN 15E1_NA 15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a 15N1_b 19B_NR 3_NR 4_NR 4B1 6A1_UC	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 Electrical conductivity or soluble salts - Not recorded 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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Observation 1

P10_gt2m P10_NR_C P10_NR_S P10_NR_Z > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded