Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0251 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:18/07/95Elevation:320 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6248500 AMG zone: 50 Runoff: No Data Easting/Lat.: 613990 Datum: AGD84 Drainage: Poorly drained

Geology

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Landform

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

Morph. Type:Mid-slopeRelief:5 metresElem. Type:HillslopeSlope Category:No DataSlope:1 %Aspect:270 degrees

Surface Soil Condition Poached, Hardsetting

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpibasic Pedal Hypocalcic CalcarosolPrincipal Profile Form:Dy2.13ASC Confidence:Great Soil Group:N/A

No analytical data and little or no knowledge of this soil.

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Gneiss; 20-50%, , subangular,

Gneiss

Profile Morphology

A1 0 - 0.06 m Very dark grey (2.5Y3/1-Moist); , 0-0%; Clay loam, sandy; Massive grade of structure;

Moist; Field pH

8.5 (Raupach); Abrupt, Wavy change to -

B21k 0.06 - 0.5 m Greyish brown (2.5Y5/2-Moist); , 0-0%; Sandy medium heavy clay; Strong grade of

structure; Rough-ped

fabric; Dry; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly

calcareous; Field pH 9 (Raupach); Gradual change to -

B22 0.5 - 0.7 m Light brownish grey (2.5Y6/2-Moist); , 0-0%; Sandy medium heavy clay; Strong grade of

structure:

Rough-ped fabric; Dry; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 Slight dispersion.
B21k Slickensides common.

Observation Notes

Site Notes

"Hardsetting grey clay' - area gets boggy - barley grass dominant pasture.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	- Gu	III g		Cmol (+)/kg			%
0 - 0.06	7.4B 8.2H	14B	10.33E	6.56	0.5	0.69	17B	18.08D	4.06
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0 - 0.06	7.4B 8.2H	14B	10.33E	6.56	0.5	0.69	17B	18.08D	4.06
0.06 - 0.26	8B 8.9H	24B	4.94E	6.61	0.24	1.93	15B	13.72D	12.87
0.06 - 0.26	8B 8.9H	24B	4.94E	6.61	0.24	1.93	15B	13.72D	12.87
0.06 - 0.26	8B 8.9H	24B	4.94E	6.61	0.24	1.93	15B	13.72D	12.87

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Siz	e Analysis S Silt
m	%	%	mg/kg	%	%	%	Mg/m3		9/	o o
0 - 0.06 29.5	<2C	1.17D						(64.5I	6
0 - 0.06 29.5	<2C	1.17D						(64.5I	6
0 - 0.06 29.5	<2C	1.17D						(64.5I	6
0.06 - 0.26 36.5	<2C	0.23D							591	4.5
0.06 - 0.26 36.5	<2C	0.23D							591	4.5
0.06 - 0.26 36.5	<2C	0.23D							591	4.5

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						
15J_BASES 15L1_a Sum of Cations	Sum of Bases 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 P10_gt2m P10_NR_C P10_NR_S P10_NR_Z	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 > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded						