Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0319** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	01/08/95	**Elevation:**	320 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6244900 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	619110 Datum: AGD84	**Drainage:**	Moderately well 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:	Upper-slope	**Relief:**	10 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	270 degrees

Surface Soil Condition

Poached, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Epihypersodic Pedal Hypercalcic Calcarosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gc2.12
Great Soil Group: N/A

Site Disturbance

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

Vegetation

Surface Coarse Fragments

2-10%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile Morphology

Ap 0 - 0.05 m Yellowish red (5YR4/6-Moist); , 0-0% ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Abrupt change to -

B21 0.05 - 0.2 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B22k 0.2 - 0.4 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Ap Sticky clay.

Observation Notes

Site Notes

Site on same gabbro dyke as previous site - grass dominated pasture.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	8.1B 8.9H	24B	24.25E	8.54	0.72	3.01		35B	36.52D	8.60

0 - 0.05	8.1B 8.9H	24B	24.25E	8.54	0.72	3.01		35B	36.52D	8.60
0.05 - 0.2	8.4B 9.4H	39B	21.24E	12.17	0.56	7.81		39B	41.78D	20.03
0.05 - 0.2	8.4B 9.4H	39B	21.24E	12.17	0.56	7.81		39B	41.78D	20.03

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05 45.5	<2C	1.1D							42.5I		12
0 - 0.05 45.5	<2C	1.1D							42.5I		12
0.05 - 0.2 53.5	6C	0.75D							35.5I		11
0.05 - 0.2 53.5	6C	0.75D							35.5I		11

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of 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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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	> 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