Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0424** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	31/08/95	**Elevation:**	300 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6251700 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	636600 Datum: AGD84	**Drainage:**	Poorly drained

Geology

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

Landform

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Lacustrine plain
Morph. Type:	Flat	**Relief:**	5 metres
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:
Epibasic Pedal Hypocalcic Calcarosol

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uf6.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subangular, Quartz; 2-10%, , subangular, Gneiss

Profile Morphology

Ap 0 - 0.08 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy light clay; Moderate grade of structure, 20-50 mm, Clod; Rough-ped fabric; Dry; 10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.45 m Greyish brown (2.5Y5/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Common cutans, 10-50% of ped faces or walls coated; Common cutans, 10-50% of ped faces or walls coated; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -

B22g 0.45 - m Grey (5Y5/1-Moist); , 0-0% ; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Many cutans, >50% of ped faces or walls coated; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Common slickensides - common organic cutans.
B22g Many slickensides.

Observation Notes

Site Notes

Site is in a sparse wheat crop with a very cloddy surface. Downslope of a dolerite dyke - between dyke and yate swamp. Field textures indicate a Grey non-cracking clay but also is a Calcarosol.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			

m		dS/m				Cmol (+)/kg				%
0 - 0.08	6.2B 7H	38B	5.08A	7.65	0.66	2.1			15.49D	
0 - 0.08	6.2B 7H	38B	5.08A	7.65	0.66	2.1			15.49D	
0 - 0.08	6.2B 7H	38B	5.08A	7.65	0.66	2.1			15.49D	
0.08 - 0.28	8B 8.9H	66B	4.46E	7.45	0.73	5.36		19B	18D	28.21
0.08 - 0.28	8B 8.9H	66B	4.46E	7.45	0.73	5.36		19B	18D	28.21
0.08 - 0.28	8B 8.9H	66B	4.46E	7.45	0.73	5.36		19B	18D	28.21

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 28		1.1D							65I		7
0 - 0.08 28		1.1D							65I		7
0 - 0.08 28		1.1D							65I		7
0.08 - 0.28 43	<2C	0.31D							48.5I		8.5
0.08 - 0.28 43	<2C	0.31D							48.5I		8.5
0.08 - 0.28 43	<2C	0.31D							48.5I		8.5

Laboratory Analyses Completed for this profile

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
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
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

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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