Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0366** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	08/08/95	**Elevation:**	260 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6241160 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	599670 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	**Relief:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	270 degrees

Surface Soil Condition

Recently cultivated, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Hypocalcic Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

20-50%, medium gravelly, 6-20mm, angular, Quartz; 10-20%, , angular, Quartz

Profile Morphology

A1 0 - 0.05 m Dark grey (2.5Y4/1-Moist); ; Sandy clay loam; Massive grade of structure; Dry; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.05 - 0.3 m Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y41, 10-20% , 30-mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8 (Raupach); Clear change to -

B22k 0.3 - 0.6 m Light grey (2.5Y7/2-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -

B3 0.6 - 0.85 m White (2.5Y8/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 9.5 (Raupach); Clear change to -

C 0.85 - 1 m Pale yellow (2.5Y8/4-Moist); , 10YR66, 0-2% , 0-5mm, Faint; Clay loam; Weak grade of structure; Smooth-ped fabric; Dry; Field pH 9 (Raupach);

Morphological Notes

A1	Cloddy.
B21	Organic cutans.
B3	Kaolinitic clay.
C	Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay".

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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	5.2B 6.3H	12B	3.76H	4.05	0.34	0.84	0.03J		8.99D	
0 - 0.05	5.2B 6.3H	12B	3.76H	4.05	0.34	0.84	0.03J		8.99D	
0 - 0.05	5.2B 6.3H	12B	3.76H	4.05	0.34	0.84	0.03J		8.99D	
0.05 - 0.25	7B 8.2H	22B	2.45E	4.38	0.28	1.88		11B	8.99D	17.09
0.05 - 0.25	7B 8.2H	22B	2.45E	4.38	0.28	1.88		11B	8.99D	17.09
0.05 - 0.25	7B 8.2H	22B	2.45E	4.38	0.28	1.88		11B	8.99D	17.09

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 - 0.05 19		1.95D							73I		8
0 - 0.05 19		1.95D							73I		8
0 - 0.05 19		1.95D							73I		8
0.05 - 0.25 39	<2C	0.23D							57I		4
0.05 - 0.25 39	<2C	0.23D							57I		4
0.05 - 0.25 39	<2C	0.23D							57I		4

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
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
15E1_AL Exchangeable Al - 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
15E1_MN Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no 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

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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