

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0378 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy **Locality:**  
**Date Desc.:** 16/08/95 **Elevation:** 290 metres  
**Map Ref.:** **Rainfall:** No Data  
**Northing/Long.:** 6237950 AMG zone: 50 **Runoff:** No Data  
**Easting/Lat.:** 614700 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:** Hillslope **Slope Category:** No Data  
**Slope:** 2 % **Aspect:** 90 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** **Mapping Unit:** N/A  
 Calcic Hypernatric Brown Sodosol **Principal Profile Form:** Dy2.13  
**ASC Confidence:** **Great Soil Group:** N/A  
 All necessary analytical data are available.

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

#### Vegetation

**Surface Coarse Fragments** No surface coarse fragments; 0-2%, , subangular, Gneiss

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moist; Field pH 6.5 (Raupach); Abrupt change to -
A2	0.1 - 0.15 m	Brown (10YR5/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 7.5 (Raupach); Irregular change to -
B21	0.15 - 0.45 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy light medium clay; Strong grade of structure, Columnar; Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -
B22k	0.45 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded, Calcrete, coarse fragments; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

A1 Slight dispersion.

#### Observation Notes

#### Site Notes

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Acidity				%
					Cmol (+)/kg				

0 - 0.1	5.9B 6.9H	17B	3.49A	1.93	0.32	0.71	6.45D
0 - 0.1	5.9B 6.9H	17B	3.49A	1.93	0.32	0.71	6.45D
0 - 0.1	5.9B 6.9H	17B	3.49A	1.93	0.32	0.71	6.45D
0.1 - 0.3	6.6B 7.9H	19B	2.79A	6.41	0.18	2.99	12.37D
0.1 - 0.3	6.6B 7.9H	19B	2.79A	6.41	0.18	2.99	12.37D
0.1 - 0.3	6.6B 7.9H	19B	2.79A	6.41	0.18	2.99	12.37D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%
0 - 0.1 7.5		1.7D							88.5I		4
0 - 0.1 7.5		1.7D							88.5I		4
0 - 0.1 7.5		1.7D							88.5I		4
0.1 - 0.3 27		0.42D							69.5I		3.5
0.1 - 0.3 27		0.42D							69.5I		3.5
0.1 - 0.3 27		0.42D							69.5I		3.5

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
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