

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0452 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 14/09/95  
**Map Ref.:**  
**Northing/Long.:** 6274320 AMG zone: 50  
**Easting/Lat.:** 638410 Datum: AGD84  
**Locality:**  
**Elevation:** 295 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Poorly drained

#### Geology

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

#### Landform

**Rel/Slope Class:** No Data  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 5 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:**  
 Calcic Hypernatric 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 Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation

#### Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

#### Profile Morphology

Ap	0 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Field pH 6
		(Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.25 m	Pale brown (10YR6/3-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Faint; Sandy medium clay; Moderate
		grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach);
		Clear change to -
B22	0.25 - 0.5 m	Light grey (2.5Y7/2-Moist); Mottles, 5YR56, 0-2% , 5-15mm, Distinct; Sandy light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is
		Slightly calcareous; Field pH 8.5 (Raupach);
B23k	0.5 - 0.6 m	Light grey (2.5Y7/2-Moist); Mottles, 10YR58, 0-2% , 0-5mm, Distinct; Sandy light medium clay;
		Moderate grade of structure; Rough-ped fabric; Firm consistence; 2-10%, medium
		gravelly, 6-20mm,
		Calcrete, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft
		segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site drained by a shallow spoon drain.

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#### Laboratory Test Results:

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

0 - 0.1	5.3B 6.4H	13B	2.06H	1.2	0.21	0.44	0.02J	3.91D
0 - 0.1	5.3B 6.4H	13B	2.06H	1.2	0.21	0.44	0.02J	3.91D
0 - 0.1	5.3B 6.4H	13B	2.06H	1.2	0.21	0.44	0.02J	3.91D
0.1 - 0.3	6.7B 7.8H	32B	2.44A	6.4	0.09	3.57		12.5D
0.1 - 0.3	6.7B 7.8H	32B	2.44A	6.4	0.09	3.57		12.5D
0.1 - 0.3	6.7B 7.8H	32B	2.44A	6.4	0.09	3.57		12.5D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.1 6.5		1.41D						89.5I 4
0 - 0.1 6.5		1.41D						89.5I 4
0 - 0.1 6.5		1.41D						89.5I 4
0.1 - 0.3 35.5		0.27D						61I 3.5
0.1 - 0.3 35.5		0.27D						61I 3.5
0.1 - 0.3 35.5		0.27D						61I 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_CMRR	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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 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)

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<b>Agency Name:</b>	<b>Agriculture Western Australia</b>	<b>Observation</b>	<b>1</b>
P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		