

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0232 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy  
**Date Desc.:** 13/07/95  
**Map Ref.:**  
**Northing/Long.:** 6250420 AMG zone: 50  
**Easting/Lat.:** 614380 Datum: AGD84  
**Locality:**  
**Elevation:** 320 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:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

**Morph. Type:** Lower-slope  
**Elem. Type:** Plain  
**Slope:** 1 %  
**Relief:** 5 metres  
**Slope Category:** No Data  
**Aspect:** 0 degrees

**Surface Soil Condition** Firm

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

**Soil Classification**

**Australian Soil Classification:** Bleached-Sodic Hypocalcic Grey Chromosol  
**ASC Confidence:** Analytical data are incomplete but reasonable confidence.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy4.43  
**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**

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 6  
 (Raupach); Sharp change to -  
 A2e 0.08 - 0.15 m Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6  
 (Raupach); Abrupt change to -  
 B21 0.15 - 0.45 m Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Sandy medium clay;  
 Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 7.5  
 (Raupach); Gradual change to -  
 B22 0.45 - 0.6 m Pale yellow (2.5Y7/4-Moist); Mottles, 2.5YR46, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft  
 segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

Chemical analysis indicates the upper B2 is non-sodic, soil classified as a Chromosol and as a variant of Fairclough 1.

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**Laboratory Test Results:**

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

0 - 0.08	5.5B 6.5H	8B	2.32A	0.71	0.2	0.08	3.31D
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0 - 0.08	5.5B 6.5H	8B	2.32A	0.71	0.2	0.08	3.31D
0.15 - 0.35	6.8B 7.9H	6B	3.84A	3.72	0.13	0.38	8.07D
0.15 - 0.35	6.8B 7.9H	6B	3.84A	3.72	0.13	0.38	8.07D
0.15 - 0.35	6.8B 7.9H	6B	3.84A	3.72	0.13	0.38	8.07D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>		CS FS Silt
0 - 0.08 5.5		1.28D							91I 3.5
0 - 0.08 5.5		1.28D							91I 3.5
0 - 0.08 5.5		1.28D							91I 3.5
0.15 - 0.35 45.5		0.23D							52I 2.5
0.15 - 0.35 45.5		0.23D							52I 2.5
0.15 - 0.35 45.5		0.23D							52I 2.5

#### 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 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