

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0164 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 20/06/95  
**Map Ref.:**  
**Northing/Long.:** 6268290 AMG zone: 50  
**Easting/Lat.:** 606970 Datum: AGD84  
**Locality:**  
**Elevation:** 320 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Well drained

#### Geology

**Exposure Type:** 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:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 1 %  
**Pattern Type:** Rises  
**Relief:** 20 metres  
**Slope Category:** No Data  
**Aspect:** 270 degrees

#### Surface Soil Condition Cryptogam surface

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

#### Soil Classification

**Australian Soil Classification:**  
 Ferric Mottled-Mesonatric Yellow Sodosol  
**ASC Confidence:**  
 All necessary analytical data are available.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy5.41  
**Great Soil Group:** N/A

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

#### Vegetation

#### Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subrounded,

#### Profile Morphology

A1 0 - 0.1 m Brown (10YR5/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Clear change to -

A2e 0.1 - 0.25 m Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -

B2t 0.25 - 0.45 m Light yellowish brown (10YR6/4-Moist); Mottles, 5YR5/6, 10-20% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach);

#### Morphological Notes

B2t pH <6

#### Observation Notes

#### Site Notes

Shallow variant of Moojebin (Clay subsoil @ 25 cm)

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0.25 - 0.45	5B 5.5H	74B	0.92H	4.6	0.08	1.44	0.08J		7.04D	
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Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0.25 - 0.45 42.5									55.5l		2
0.25 - 0.45 42.5									55.5l		2

#### **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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble salts
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
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
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