

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0465 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 18/09/95  
**Map Ref.:**  
**Northing/Long.:** 6281900 AMG zone: 50  
**Easting/Lat.:** 631050 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:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 2 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:**  
 Calcic Subnatric Grey Sodosol  
**ASC Confidence:**  
 All necessary analytical data are available.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dg2.13  
**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

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; Field pH 6  
 (Raupach); Abrupt, Smooth change to -  
 A3 0.08 - 0.12 m Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; Field pH  
 7 (Raupach); Abrupt, Wavy change to -  
 B2 0.12 - 0.3 m Pale yellow (2.5Y7/3-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate  
 grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field  
 pH 9 (Raupach); Gradual change to -  
 Bk 0.3 - 0.6 m Pale yellow (2.5Y7/4-Moist); Mottles, 10YR58, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of  
 structure; Rough-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm,  
 Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;  
 Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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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	5.2B	5B	3.2H	0.76	0.25	0.08	0.04J		4.29D	

0 - 0.1	6.2H 5.2B	5B	3.2H	0.76	0.25	0.08	0.04J		4.29D	
0 - 0.1	6.2H 5.2B	5B	3.2H	0.76	0.25	0.08	0.04J		4.29D	
0.1 - 0.3	6.2H 8B	13B	5.16E	3.12	0.34	0.78		10B	9.4D	7.80
0.1 - 0.3	9H 8B	13B	5.16E	3.12	0.34	0.78		10B	9.4D	7.80
0.1 - 0.3	9H 8B	13B	5.16E	3.12	0.34	0.78		10B	9.4D	7.80
	9H									

Depth	CaCO <sub>3</sub>	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS	Silt
0 - 0.1		1.26D						89.5I	5
5.5									
0 - 0.1		1.26D						89.5I	5
5.5									
0 - 0.1		1.26D						89.5I	5
5.5									
0.1 - 0.3	<2C	0.27D						65.5I	5
29.5									
0.1 - 0.3	<2C	0.27D						65.5I	5
29.5									
0.1 - 0.3	<2C	0.27D						65.5I	5
29.5									

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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	
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	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 (CaCO <sub>3</sub> ) - 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