

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0435 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 13/09/95  
**Map Ref.:**  
**Northing/Long.:** 6257570 AMG zone: 50  
**Easting/Lat.:** 634290 Datum: AGD84  
**Locality:**  
**Elevation:** 310 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:** Flat  
**Elem. Type:** Valley flat  
**Slope:** 0 %  
**Relief:** 10 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** Hypocalcic 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 Cultivation. Rainfed

#### Vegetation

**Surface Coarse Fragments** 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

#### Profile Morphology

A1 0 - 0.05 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field pH 6 (Raupach); Abrupt, Smooth change to -  
 B21 0.05 - 0.25 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Weak grade of structure; Sandy (grains prominent) fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -  
 B22 0.25 - 0.6 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure; Sandy (grains prominent) fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site along road reserve of Tie Line Road - adjacent paddock in barley. ESP of 25.7 in upper B2 - Hypernatric bordering on Mesonatric

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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 - 0.05	4.8B 5.9H	7B	2.09H	1.46	0.19	0.14	0.08J		3.88D	
0 - 0.05	4.8B	7B	2.09H	1.46	0.19	0.14	0.08J		3.88D	

0 - 0.05	5.9H 4.8B	7B	2.09H	1.46	0.19	0.14	0.08J	3.88D		
0.05 - 0.25	5.9H 8.1B	87B	1.66E	4.94	0.26	2.57		10B	9.43D	25.70
0.05 - 0.25	8.8H 8.1B	87B	1.66E	4.94	0.26	2.57		10B	9.43D	25.70
0.05 - 0.25	8.8H 8.1B	87B	1.66E	4.94	0.26	2.57		10B	9.43D	25.70

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.05		1.7D						86.5I	7
6.5									
0 - 0.05		1.7D						86.5I	7
6.5									
0 - 0.05		1.7D						86.5I	7
6.5									
0.05 - 0.25	2C	0.24D						70I	6
24									
0.05 - 0.25	2C	0.24D						70I	6
24									
0.05 - 0.25	2C	0.24D						70I	6
24									

#### 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 (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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 (Mn2+) 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 (CaCO3) - 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