

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0426 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	12/09/95	<b>Elevation:</b>	315 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6257000 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	632500 Datum: AGD84	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Landform

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	15 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Hypocalcic Subnatric Grey Sodosol	<b>Principal Profile Form:</b>	Dy2.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

All necessary analytical data are available.

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

#### Vegetation

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

#### Profile Morphology

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moderately moist; Field pH 6.5 (Raupach); Abrupt, Smooth change to -
A2	0.08 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Massive grade of structure; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
B2t	0.1 - 0.4 m	Pale brown (10YR6/3-Moist); Mottles, 5YR66, 2-10% , 5-15mm, Faint; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Common cutans, 10-50% of ped faces or walls coated; Field pH 8 (Raupach); Clear change to -
B31k	0.4 - 0.6 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Distinct; Coarse sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -
B32	0.6 - 0.75 m	Light yellowish brown (10YR6/4-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; , 5-15mm, Distinct; Coarse sandy light clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

#### Morphological Notes

B2t	Organic cutans common.
B32	Stopped by coarse quartz gravel.

#### 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 - 0.08	5.5B 6.2H	10B	5.67H	2.16	0.22	0.25	0.02J		8.3D	
0 - 0.08	5.5B 6.2H	10B	5.67H	2.16	0.22	0.25	0.02J		8.3D	
0 - 0.08	5.5B 6.2H	10B	5.67H	2.16	0.22	0.25	0.02J		8.3D	
0.1 - 0.3	6.7B 8H	10B	3.54A	5.16	0.05	1.29			10.04D	
0.1 - 0.3	6.7B 8H	10B	3.54A	5.16	0.05	1.29			10.04D	
0.1 - 0.3	6.7B 8H	10B	3.54A	5.16	0.05	1.29			10.04D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 11.5		1.89D							80I		8.5
0 - 0.08 11.5		1.89D							80I		8.5
0 - 0.08 11.5		1.89D							80I		8.5
0.1 - 0.3 25.5	<2C	0.34D							66.5I		8
0.1 - 0.3 25.5	<2C	0.34D							66.5I		8
0.1 - 0.3 25.5	<2C	0.34D							66.5I		8

**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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no 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 (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