

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0478 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 20/09/95	<b>Elevation:</b> 345 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6279600 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 624400 Datum: AGD84	<b>Drainage:</b> Moderately well 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> Mid-slope	<b>Relief:</b> 20 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 3 %	<b>Aspect:</b> 90 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Sodic Calcic Brown Dermosol	<b>Principal Profile Form:</b> Db1.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
No analytical data are available but confidence is fair.	

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

#### Vegetation

**Surface Coarse Fragments** No surface coarse fragments; 0-2%, , rounded, Dolerite

#### Profile Morphology

Ap	0 - 0.07 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Firm consistence;
		Field pH 6.5 (Raupach); Abrupt, Wavy change to -
B1p	0.07 - 0.25 m	Brown (7.5YR4/4-Moist); , 0-0% ; Clay loam, coarse sandy; Weak grade of structure;
		Rough-ped fabric;
		Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);
		Clear change to -
B2k	0.25 - 0.5 m	Brown (7.5YR4/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure;
		Rough-ped fabric;
		Dry; Firm consistence; 2-10%, 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); Clear change to -
B3	0.5 - 0.6 m	Yellowish brown (10YR5/5-Moist); Mottles, 2.5YR4/6, 10-20% , 15-30mm, Distinct; Sandy
		light medium
		clay; Massive grade of structure; Dry; Firm consistence; Soil matrix is Slightly calcareous;
		Field pH 9
		(Raupach);

#### Morphological Notes

B1p Mixing with topsoil.

#### Observation Notes

#### Site Notes

Medic pasture at site is weedy with capeweed and Erodium.

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity				%
0 - 0.07	6B 7.2H	17B	3.44A	3.31	0.51	1.09			8.35D	
0 - 0.07	6B 7.2H	17B	3.44A	3.31	0.51	1.09			8.35D	
0 - 0.07	6B 7.2H	17B	3.44A	3.31	0.51	1.09			8.35D	
0.07 - 0.27	6.9B 8.6H	9B	2.63E	4.83	0.16	2.19	9B	9.81D	24.33	
0.07 - 0.27	6.9B 8.6H	9B	2.63E	4.83	0.16	2.19	9B	9.81D	24.33	
0.07 - 0.27	6.9B 8.6H	9B	2.63E	4.83	0.16	2.19	9B	9.81D	24.33	

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 - 0.07 10.5		1.33D							81.5I		8
0 - 0.07 10.5		1.33D							81.5I		8
0 - 0.07 10.5		1.33D							81.5I		8
0.07 - 0.27 18	<2C	0.35D							75I		7
0.07 - 0.27 18	<2C	0.35D							75I		7
0.07 - 0.27 18	<2C	0.35D							75I		7

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRe	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CAF	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
15C1_CAF	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
15J_BASES	Sum of Bases
15L1_a	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

19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded

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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