

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0493 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	26/03/96	<b>Elevation:</b>	330 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6334750 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	620700 Datum: AGD84	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<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>	Upper-slope	<b>Relief:</b>	20 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	315 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Mesotrophic Brown Kandosol	<b>Principal Profile Form:</b>	Uc5.11
<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** No surface coarse fragments; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.08 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; 0-2%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm)
		roots; Sharp, Smooth change to -
A31	0.08 - 0.22 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 0-2%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm)
		roots; Abrupt, Smooth change to -
A32	0.22 - 1.2 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 0-2%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm)
		roots; Gradual, Smooth change to -
B1	1.2 - 1.57 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; 2-10%, coarse
		gravelly, 20-60mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, mm), Nodules; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (Raupach);
		Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2wc	1.57 - 2.2 m	Yellowish brown (10YR5/6-Moist); ; Massive grade of structure; Dry; 50-90%, fine
		gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach);

#### Morphological Notes

A32	Occasional smooth faced medium gravel.
B1	Occasional smooth faced medium gravel.

#### Observation Notes

#### Site Notes

Soil pit in Tarin Rock catchment.

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0493 **Observation** 1  
**Agency Name:** Agriculture Western Australia

**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 - 0.08	4.7B 5.7H	11B	1.11H	0.48	0.35	0.29	0.16J		2.23D	
0 - 0.08	4.7B 5.7H	11B	1.11H	0.48	0.35	0.29	0.16J		2.23D	
0 - 0.1	4.6B 5.5H 4.6B 5.4H	10B 8B								
0 - 0.1	4.6B 5.5H 4.6B 5.4H	10B 8B								
0 - 0.1	4.6B 5.5H 4.6B 5.4H	10B 8B								
0.08 - 0.22	4.1B 4.7H	4B	0.5H	0.26	0.04	0.05	0.39J		0.85D	
0.08 - 0.22	4.1B 4.7H	4B	0.5H	0.26	0.04	0.05	0.39J		0.85D	
0.1 - 0.2	4.1B 4.8H	4B								
0.22 - 0.7	4.2B 4.8H	4B	0.44H	0.33	<0.02	0.03	0.3J		0.81D	
0.22 - 0.7	4.2B 4.8H	4B	0.44H	0.33	<0.02	0.03	0.3J		0.81D	
0.4 - 0.5	4.2B 4.8H	4B								
0.7 - 1.2	4.2B 4.9H	3B	0.3H	0.49	<0.02	0.03	0.32J		0.83D	
0.7 - 1.2	4.2B 4.9H	3B	0.3H	0.49	<0.02	0.03	0.32J		0.83D	
1.2 - 1.57	4.1B 4.8H	4B	0.12H	0.46	<0.02	0.04	0.5J		0.63D	
1.2 - 1.57	4.1B 4.8H	4B	0.12H	0.46	<0.02	0.04	0.5J		0.63D	
1.57 - 2.2	4.1B 4.6H	6B	0.04H	0.82	0.02	0.09	0.64J		0.97D	
1.57 - 2.2	4.1B 4.6H	6B	0.04H	0.82	0.02	0.09	0.64J		0.97D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.08 9.5		0.83D		100B						2.5
0 - 0.08 9.5		0.83D		100B						2.5
0 - 0.1		1.13D		120B	0.067E					
0 - 0.1		1.13D		120B	0.067E					
0 - 0.1		1.13D		120B	0.067E					
0.08 - 0.22 13.2		0.22D		27B						2.4

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0493 **Observation** 1  
**Agency Name:** Agriculture Western Australia

0.08 - 0.22 13.2	0.22D	27B	2.4
0.1 - 0.2			
0.22 - 0.7 15.1	0.1D	20B	2.2
0.22 - 0.7 15.1	0.1D	20B	2.2
0.4 - 0.5			
0.7 - 1.2 17.2	0.08D	20B	2
0.7 - 1.2 17.2	0.08D	20B	2
1.2 - 1.57 18.4	0.08D	21B	2.4
1.2 - 1.57 18.4	0.08D	21B	2.4
1.57 - 2.2 17.6	0.13D	22B	2.6
1.57 - 2.2 17.6	0.13D	22B	2.6

#### **Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMdR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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_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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)