

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0239 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	17/07/95	Elevation:	340 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6256700 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	602690 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Landform

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

Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	90 degrees

Surface Soil Condition Recently cultivated, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mesonatric Grey Sodosol		Principal Profile Form:	Dy2.41
ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , subangular, Quartz

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Sharp, Smooth change to -
A3	0.1 - 0.15 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moist; Field pH 7.5 (Raupach); Wavy change to -
B1	0.15 - 0.35 m	Pale brown (10YR6/3-Moist); Mottles, 7.5YR5/4, 2-10% , 5-15mm, Faint; Sandy clay loam; Weak grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 8 (Raupach); Gradual change to -
B21	0.35 - 0.5 m	Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sandy light clay; Moderate grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 7.5 (Raupach);
B22	0.5 - 0.7 m	Pale yellow (2.5Y7/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach); Abrupt change to -
B23	0.7 - 0.75 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

B1	Slight dispersion.
B21	Slight dispersion.
B22	Very slight dispersion.

Observation Notes

Site Notes

Site is 500 metres downslope of breakaway - "hardsetting grey clay".

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0239 **Observation** 1
Agency Name: Agriculture Western Australia

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	5.4B 6.2H	7B	8.8H	1.51	0.13	0.12	0.05J		10.56D	
0 - 0.1	5.4B 6.2H	7B	8.8H	1.51	0.13	0.12	0.05J		10.56D	
0 - 0.1	5.4B 6.2H	7B	8.8H	1.51	0.13	0.12	0.05J		10.56D	
0.15 - 0.35	6.6B 7.2H	42B	1.47A	2.65	0.16	0.63			4.91D	
0.15 - 0.35	6.6B 7.2H	42B	1.47A	2.65	0.16	0.63			4.91D	
0.15 - 0.35	6.6B 7.2H	42B	1.47A	2.65	0.16	0.63			4.91D	
0.35 - 0.5	6.4B 6.9H	76B	0.56A	3.37	0.31	1.22			5.46D	
0.35 - 0.5	6.4B 6.9H	76B	0.56A	3.37	0.31	1.22			5.46D	
0.35 - 0.5	6.4B 6.9H	76B	0.56A	3.37	0.31	1.22			5.46D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		2.45D						88I 5.5
0 - 0.1		2.45D						88I 5.5
0 - 0.1		2.45D						88I 5.5
0.15 - 0.35		0.35D						78.5I 6
0.15 - 0.35		0.35D						78.5I 6
0.15 - 0.35		0.35D						78.5I 6
0.35 - 0.5		0.16D						68.5I 5.5
0.35 - 0.5		0.16D						68.5I 5.5
0.35 - 0.5		0.16D						68.5I 5.5

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
 15_NR_CMV 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 (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0239 **Observation** 1
Agency Name: Agriculture Western Australia

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
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
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