

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0230 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 13/07/95
Map Ref.:
Northing/Long.: 6250405 AMG zone: 50
Easting/Lat.: 617825 Datum: AGD84
Locality:
Elevation: 335 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well 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: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Relief: 10 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:
 Mesotrophic Mottled-Mesonatric Brown Sodosol

Mapping Unit: N/A
Principal Profile Form: Dy5.22
Great Soil Group: N/A

ASC Confidence:
 All necessary analytical data are available.

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 6
		(Raupach); Sharp, Smooth change to -
A2	0.1 - 0.35 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 2-
		10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5
		(Raupach); Abrupt, Wavy
		change to -
B21	0.35 - 0.5 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 7.5
		(Raupach); Gradual change to -
B22	0.5 - 0.7 m	Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 7
		(Raupach);

Morphological Notes

A2 Gravel increases to 20% from 30-35cm.

Observation Notes

Site Notes

Site covered in a thin layer of wind deposited sand which is water repellent. Actual soil surface is not water repellent.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
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m	dS/m	Cmol (+)/kg						%
0 - 0.1	4.9B							
0.15 - 0.25	4.8B							
0.35 - 0.55	6.2B	13B	1.43A	4.41	0.2	1.36		7.4D
	7.2H							
0.35 - 0.55	6.2B	13B	1.43A	4.41	0.2	1.36		7.4D
	7.2H							
0.4 - 0.5	6.4B							

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 - 0.1								
0.15 - 0.25								
0.35 - 0.55		0.17D						39I 2.5
58.5								
0.35 - 0.55		0.17D						39I 2.5
58.5								
0.4 - 0.5								

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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
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