

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0196 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 05/07/95
Map Ref.:
Northing/Long.: 6257915 AMG zone: 50
Easting/Lat.: 604425 Datum: AGD84
Locality:
Elevation: 330 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately 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: No Data
Morph. Type: Crest
Elem. Type: Summit surface
Slope: 1 %
Pattern Type: Rises
Relief: 15 metres
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
 Ferric Mesonatric Brown Sodosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy4.13
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, ; 0-2%, , subangular, Quartz

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; 10-20mm,
A3c	0.1 - 0.45 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, 20mm, subrounded, , fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-coarse fragments; Field pH 6.5 (Raupach); Clear change to -
B2tc	0.45 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy light medium clay; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 8.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site 40 metres upslope of breakaway. Gravel borrow area along road reserve.

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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 - 0.1	4.6B									
0.15 - 0.25	5.7B									
0.3 - 0.4	6.2B									
0.45 - 0.65	7.1B	12B	0.76E	5.33	0.62	2.34		13B	9.05D	18.00

0.45 - 0.65	8.4H 7.1B 8.4H	12B	0.76E	5.33	0.62	2.34		13B	9.05D	18.00
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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 - 0.1											
0.15 - 0.25											
0.3 - 0.4											
0.45 - 0.65	<2C	0.17D							55.5l		4.5
40											
0.45 - 0.65	<2C	0.17D							55.5l		4.5
40											

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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
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 (CaCO3) - 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
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