

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0576 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 11/09/96
Map Ref.:
Northing/Long.: 6305460 AMG zone: 50
Easting/Lat.: 600470 Datum: AGD84
Locality:
Elevation: 300 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: 2 %
Relief: 30 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Hypernatric Red Sodosol
ASC Confidence: Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dr2.13
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, subangular, Quartz; No surface coarse fragments

Profile Morphology

A1p 0 - 0.08 m Reddish brown (5YR4/4-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
B1 0.08 - 0.22 m Yellowish red (5YR4/6-Moist); , 0-0% ; Coarse sandy clay loam; Weak grade of structure; Dry; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, Ferricrete, coarse fragments; Field pH 8.5 (Raupach); Gradual change to -
B2 0.22 - 0.4 m Red (2.5YR4/6-Moist); , 0-0% ; Clay loam, sandy; Weak grade of structure; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Slight rill erosion in mapping unit.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	cmol (+)/kg	Acidity			%
0.22 - 0.4	7.9B 9.1H	38B	1.78E	5.99	0.3	3.74		12B	11.81D	31.17
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Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0.22 - 0.4 22	<2C	0.19D						73.5I 4.5
0.22 - 0.4 22	<2C	0.19D						73.5I 4.5
0.22 - 0.4 22	<2C	0.19D						73.5I 4.5

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
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
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 (CaCO ₃) - 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