

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0278 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 25/07/95 **Elevation:** 370 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6291355 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 616080 Datum: AGD84 **Drainage:** Poorly drained

Geology

Exposure Type: 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: 2 % **Aspect:** 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Mesotrophic Mesonatric Red Sodosol **Principal Profile Form:** Dr2.21
ASC Confidence: **Great Soil Group:** N/A
 All necessary analytical data are available.

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

Vegetation

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

Profile Morphology

A1 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Sharp change to -
 A2 0.08 - 0.1 m Brown (7.5YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
 B21 0.1 - 0.45 m Red (2.5YR4/6-Moist); Mottles, 5YR56, 10-20% , 15-30mm, Faint; Medium heavy clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Clear change to -
 B22 0.45 - 0.6 m Red (2.5YR4/6-Moist); Mottles, 10YR76, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach);

Morphological Notes

A2 Not always present.
 B21 Kaolinitic clay.
 B22 Kaolinitic clay - slight dispersion.

Observation Notes

Site Notes

Profile similar to both a "hardsetting grey clay" and a "mallet hill soil".

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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	5.2B 6.4H	8B	4.65H	1.27	0.31	0.22	0.11J		6.45D	

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0.1 - 0.3	4.7B 5.7H	6B	1.12H	2.43	0.02	0.36	0.17J	3.93D
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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 - 0.08 7		2.89D						87I 6
0 - 0.08 7		2.89D						87I 6
0 - 0.08 7		2.89D						87I 6
0.1 - 0.3 62.5		0.46D						34.5I 3
0.1 - 0.3 62.5		0.46D						34.5I 3
0.1 - 0.3 62.5		0.46D						34.5I 3

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
15J_BASES	Sum of Bases
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