

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0467 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 19/09/95 **Elevation:** 335 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6280105 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 627460 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: Upper-slope **Relief:** 15 metres
Elem. Type: Hillcrest **Slope Category:** No Data
Slope: 1 % **Aspect:** 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Eutrophic Mesonatric Red Sodosol **Principal Profile Form:** Dr2.11
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 No surface coarse fragments; 2-10%, , subangular, Gabbro

Profile Morphology

A1 0 - 0.05 m Dark reddish brown (5YR3/2-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Firm
 consistence; Field pH 7.5 (Raupach); Abrupt, Wavy change to -
 B21 0.05 - 0.25 m Reddish brown (5YR4/4-Moist); Mechanical, 5YR32, 10-20% , 5-15mm, Distinct; Medium clay; Strong
 grade of structure; Rough-ped fabric; Dry; Firm consistence; Field pH 6.5 (Raupach);
 Clear change to -
 B22 0.25 - 0.5 m Red (2.5YR4/6-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Dry;
 Very firm consistence; Field pH 5.5 (Raupach); Clear change to -
 B3 0.5 - 0.85 m Strong brown (7.5YR5/6-Moist); , 0-0% ; Weak grade of structure; Rough-ped fabric; Dry; Firm
 consistence; Field pH 5.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Soil at this site is not an ironstone gravelly soil. Mesonatric variant

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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 - 0.05	6.2B 7H	36B	6.02A	6.02	1.11	1.47			14.62D	
0 - 0.05	6.2B	36B	6.02A	6.02	1.11	1.47			14.62D	

	7H								
0.05 - 0.25	5.4B	43B	2.57H	5.23	0.37	2.39	0.07J		10.56D
	6.2H								
0.05 - 0.25	5.4B	43B	2.57H	5.23	0.37	2.39	0.07J		10.56D
	6.2H								

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m ³	GV CS FS	Silt
0 - 0.05		2.5D						71.5l	9
19.5									
0 - 0.05		2.5D						71.5l	9
19.5									
0.05 - 0.25		1.28D						47.5l	8
44.5									
0.05 - 0.25		1.28D						47.5l	8
44.5									

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_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
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