

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0422 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 31/08/95
Map Ref.:
Northing/Long.: 6249850 AMG zone: 50
Easting/Lat.: 636650 Datum: AGD84
Locality:
Elevation: 305 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: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Epibasic Pedal Hypercalcic Calcarosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db1.13
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subrounded, Granite; No surface coarse fragments

Profile Morphology

Ap 0 - 0.05 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular
 blocky; Rough-ped fabric; Dry; Firm consistence; Field pH 8.5 (Raupach); Abrupt, Wavy change to -

B21k 0.05 - 0.2 m Brown (7.5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry;
 Firm consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;
 Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B22 0.2 - 0.5 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped
 fabric; Moderately moist; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site is still in same system as Ongerup. Not the Tieline system. Faba beam crop in opposite paddock.

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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 - 0.05	7.2B 7.9H	21B	11.24A	5.53	1.14	1.05			18.96D	
0 - 0.05	7.2B 7.9H	21B	11.24A	5.53	1.14	1.05			18.96D	

0 - 0.05	7.2B 7.9H	21B	11.24A	5.53	1.14	1.05			18.96D	
0.05 - 0.25	8.4B 9.4H	34B	10.61E	9.56	1.1	3.68		26B	24.95D	14.15
0.05 - 0.25	8.4B 9.4H	34B	10.61E	9.56	1.1	3.68		26B	24.95D	14.15
0.05 - 0.25	8.4B 9.4H	34B	10.61E	9.56	1.1	3.68		26B	24.95D	14.15

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.05 21		1.94D								69.5I		9.5
0 - 0.05 21		1.94D								69.5I		9.5
0 - 0.05 21		1.94D								69.5I		9.5
0.05 - 0.25 44.5	10C	0.68D								46I		9.5
0.05 - 0.25 44.5	10C	0.68D								46I		9.5
0.05 - 0.25 44.5	10C	0.68D								46I		9.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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

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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