

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0342 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 03/08/95
Map Ref.:
Northing/Long.: 6249515 AMG zone: 50
Easting/Lat.: 596900 Datum: AGD84
Locality:
Elevation: 280 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

Exposure Type: 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: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Mottled-Mesonatric Brown Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm, subangular, , coarse fragments; Field pH 6 (Raupach); Abrupt, Irregular change to -
 B21 0.1 - 0.4 m Brown (10YR5/3-Moist); Mottles, 10YR6/3, 2-10% , 5-15mm, Faint; , 5YR4/6, 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, Columnar; Rough-ped fabric; Moderately moist; Firm consistence; Many cutans, >50% of ped faces or walls coated; Field pH 7.5 (Raupach); Clear change to -
 B22 0.4 - 0.6 m Yellowish brown (10YR5/4-Moist); Mottles, 5YR4/6, 10-20% , 5-15mm, Distinct; Sandy medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Many organic cutans 10YR 3/1.

Observation Notes

Site Notes

Crop sparse at this site due to possible competition for moisture by large salmon gum - "hardsetting grey clay"

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		Mg K	cmol (+)/kg				%

0 - 0.1	5.1B 5.9H	14B	3.25H	1.52	0.16	0.34	0.07J	5.27D
0 - 0.1	5.1B 5.9H	14B	3.25H	1.52	0.16	0.34	0.07J	5.27D
0 - 0.1	5.1B 5.9H	14B	3.25H	1.52	0.16	0.34	0.07J	5.27D
0.1 - 0.3	6.3B 7.2H	49B	3.89A	9.48	0.45	4.32		18.14D
0.1 - 0.3	6.3B 7.2H	49B	3.89A	9.48	0.45	4.32		18.14D
0.1 - 0.3	6.3B 7.2H	49B	3.89A	9.48	0.45	4.32		18.14D

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 - 0.1 7.5		0.82D						84.5I 8
0 - 0.1 7.5		0.82D						84.5I 8
0 - 0.1 7.5		0.82D						84.5I 8
0.1 - 0.3 35		0.38D						55.5I 9.5
0.1 - 0.3 35		0.38D						55.5I 9.5
0.1 - 0.3 35		0.38D						55.5I 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_CMRR	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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 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
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)

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P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		