

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0726 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts
Date Desc.: 29/01/97
Map Ref.:
Northing/Long.: 6297062 AMG zone: 50
Easting/Lat.: 599766 Datum: AGD84
Locality:
Elevation: 315 metres
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

Exposure Type: Soil pit
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: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Loose

Erosion (wind); (scald) (sheet) (rill) (mass) (gully)
 (stbank) (tunnel)

Soil Classification

Australian Soil Classification:
 Ferric Mottled-Mesonatric Grey Sodosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 90-100%, medium gravelly, 6-20mm, rounded, Gravel; No surface coarse fragments

Profile Morphology

A1cp 0 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Sandy loam; Moderate grade of structure, 20-50 mm, Prismatic; Dry; 50-90%, medium gravelly, 6-20mm, subrounded, Gravel, coarse fragments; Field pH 5.5 (Raupach); Sharp, Smooth change to -
 A2ec 0.1 - 0.3 m Light yellowish brown (10YR6/4-Moist); ; Single grain grade of structure; Dry; 50-90%, medium gravelly, 6-20mm, subrounded, Gravel, coarse fragments; Soil matrix is Slightly calcareous; Field pH 6 (Raupach); Sharp, Smooth change to -
 B2c 0.3 - 1.7 m Light grey (10YR7/1-Moist); , 10YR66, 20-50% , 30-mm, Distinct; , 5YR58, 20-50% , 15-30mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Polyhedral; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, Gravel, coarse fragments; Soil matrix is Slightly calcareous; Field pH 6 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Soil pit.

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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	4.8B 5.5H	11B	4.06H	0.77	0.13	0.16	0.16J	5.12D
0 - 0.1	4.8B 5.5H	11B	4.06H	0.77	0.13	0.16	0.16J	5.12D
0.1 - 0.3	5.3B 6.3H	3B	99H	0.34	0.04	0.04	0.02J	99.42D
0.1 - 0.3	5.3B 6.3H	3B	99H	0.34	0.04	0.04	0.02J	99.42D
0.3 - 1.7	5.3B 6.5H	12B	1.55A	8.49	0.19	2.39		12.62D
0.3 - 1.7	5.3B 6.5H	12B	1.55A	8.49	0.19	2.39		12.62D

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 8.9		1.56D		310B	0.11E			6.4
0 - 0.1 8.9		1.56D		310B	0.11E			6.4
0.1 - 0.3 6.4		0.23D		80B	0.017E			4.1
0.1 - 0.3 6.4		0.23D		80B	0.017E			4.1
0.3 - 1.7 63.1		0.08D		36B	0.01E			5
0.3 - 1.7 63.1		0.08D		36B	0.01E			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
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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_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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct

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4G_NR	pH buffering capacity, (method not recorded)
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
7C1a	Ammonium-N, in presence or absence of nitrite
7C1e	Nitrate-N, in presence of nitrite
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)