

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 1025 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts
Date Desc.: 10/10/97
Map Ref.:
Northing/Long.: 6263472 AMG zone: 50
Easting/Lat.: 645528 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Landform

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Duneslope
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Erosion

Soil Classification

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

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.08 m ; Loamy sand; Field pH 5.8 (pH meter);
 A2e 0.08 - 0.5 m ; Sand; Field pH 6.4 (pH meter);
 B21tk 0.5 - 0.75 m ; Soil matrix is Slightly calcareous; Field pH 8.5 (pH meter);
 B22tk 0.75 - 1.2 m , 20-50% ; Soil matrix is Slightly calcareous; Field pH 8.8 (pH meter);

Morphological Notes

A1 loamy sand
 A2e Bleached sand
 B21tk Mottled grey clay, slightly calcareous.
 B22tk Grey clay with large carbonate fragments

Observation Notes

Site Notes

Soil pit on a lake lunette. Layers 1 & 2 -aeolian sand. Soil Group: grey deep sandy duplex.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.08	5.3B 6.1H	5B	0.94H	0.2	0.06	0.06			1.26D	
0 - 0.08	5.3B 6.1H	5B	0.94H	0.2	0.06	0.06			1.26D	
0.08 - 0.5	6.6B 7.5H	6B	1.91A	0.55	0.14	0.22			2.82D	
0.08 - 0.5	6.6B 7.5H	6B	1.91A	0.55	0.14	0.22			2.82D	
0.5 - 0.75	6.8B 8.3H	13B	3.79E	1.64	0.81	1.71		12B	7.95D	14.25
0.5 - 0.75	6.8B									

0.75 - 1.2	8.3H 7.6B 8.7H	30B	4.08E	1.94	0.98	1.93		12B	8.93D	16.08
0.75 - 1.2	7.6B 8.7H	30B	4.08E	1.94	0.98	1.93		12B	8.93D	16.08

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%				
0 - 0.08 2.2		0.19D		14B	0.007E							1.5
0 - 0.08 2.2		0.19D		14B	0.007E							1.5
0.08 - 0.5 7.2		0.19D		15B	0.01E							1.4
0.08 - 0.5 7.2		0.19D		15B	0.01E							1.4
0.5 - 0.75 32.1		0.17D		25B	0.013E							2.7
0.5 - 0.75 32.1		0.17D		25B	0.013E							2.7
0.75 - 1.2 31.9		0.06D			0.006E							1.3
0.75 - 1.2 31.9		0.06D			0.006E							1.3

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

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15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_CA salts	Exchangeable bases (Ca ²⁺ , Mg ²⁺ , Na ⁺ , K ⁺) by compulsive exchange, no pretreatment for soluble
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 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
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
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)