Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 1024 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts Locality:

Date Desc.:10/10/97Elevation:No DataMap Ref.:Rainfall:No DataNorthing/Long.:6261481 AMG zone: 50Runoff:No DataEasting/Lat.:651453 Datum: AGD84Drainage:No Data

Geology

 ExposureType:
 Soil pit
 Conf. Sub. is Parent. Mat.:
 No Data

 Geol. Ref.:
 No Data
 Substrate Material:
 No Data

Landform

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:Mapping Unit:N/AFerric Mottled-Hypernatric SodosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

Analytical data are incomplete but reasonable confidence.

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1c 0 - 0.1 m ; Loamy sand; 20-50%, Ironstone, coarse fragments; Field pH 7.1 (pH meter);

A2ec 0.1 - 0.3 m ; 50-90%, Ironstone, coarse fragments; Field pH 7.4 (pH meter);

B21c 0.3 - 0.7 m , 20-50%; Light clay; Strong grade of structure; 10-20%, Ironstone, coarse fragments;

Field pH 8.1 (pH

meter);

B22c 0.7 - 1.5 m ; Light clay; Massive grade of structure; Field pH 7.4 (pH meter);

B23 1.5 - 1.6 m ; Light medium clay; Massive grade of structure; Field pH 4.9 (pH meter);

Morphological Notes

A2ec Bleached sandy loam.

B21c Clay some gravel, mottled clay

Santolite

B22c Saprolite. B23 Kaolinite.

Observation Notes

Site Notes

Soil pit a loamy gravel. Recharge area for lower slopes. Downslope of site is waterlogged area with lucerne balansa clover.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ca E	Exchangeable Cations		Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	N.	Cmol (+)/kg			%
0 - 0.1	5.8B 6.7H	22B	4.47A	1.1	1.03	0.49		7.09D	
0 - 0.1	5.8B 6.7H	22B	4.47A	1.1	1.03	0.49		7.09D	
0.1 - 0.3	6.7B 8H	6B	1.35A	0.54	0.24	0.34		2.47D	

0.1 - 0.3	6.7B 8H	6B	1.35A	0.54	0.24	0.34			2.47D	
0.3 - 0.7	7.5B 8.7H	55B	1.66E	4.98	1.52	4.29		15B	12.45D	28.60
0.3 - 0.7	7.5B 8.7H	55B	1.66E	4.98	1.52	4.29		15B	12.45D	28.60
0.7 - 1.5	7.5B 8.5H	94B	0.68E	4.63	1.39	6.17		14B	12.87D	44.07
0.7 - 1.5	7.5B 8.5H	94B	0.68E	4.63	1.39	6.17		14B	12.87D	44.07
1.5 - 1.6	4.5B 5H	150B	0.04H	2.63	0.34	2.23	0.3J		5.24D	
1.5 - 1.6	4.5B 5H	150B	0.04H	2.63	0.34	2.23	0.3J		5.24D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	G۷	Particle CS	Size FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 4.8		1.7D		110B	0.114E						5.8
0 - 0.1 4.8		1.7D		110B	0.114E						5.8
0.1 - 0.3 3.9		0.21D		27B	0.012E						4.1
0.1 - 0.3 3.9		0.21D		27B	0.012E						4.1
0.3 - 0.7 41.3	<2C	0.15D		40B	0.014E						9
0.3 - 0.7 41.3	<2C	0.15D		40B	0.014E						9
0.7 - 1.5 35.4		0.09D		44B	0.009E						6.2
0.7 - 1.5 35.4		0.09D		44B	0.009E						6.2
1.5 - 1.6 46.3		0.14D		26B	0.006E						2
1.5 - 1.6 46.3		0.14D		26B	0.006E						2

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15_NR_MN 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
•	soluble salts

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15C1 CEC CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for 15C1_K soluble salts 15C1_MG Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts 15C1 NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts 15E1_AL 15E1_CA Exchangeable bases (Ca2+,Mg2+,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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Sum of Bases 15J_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) Calcium Carbonate (CaCO3) - Not recorded 19B NR Electrical conductivity or soluble salts - Not recorded 3_NR 4_NR pH of soil - Not recorded 4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 4B1 4G_NR 6A1_UC pH buffering capacity, (method not recorded) 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 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded) 9A3 9B NR 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) Clay (%) - Not recorded P10_NR_C P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated

P10_NR_Z Silt (%) - Not recorded

P10106_150 P10150_180 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) P10180 300 P10300 600 300 to 600u particle size analysis, (method not recorded) P106001000 600 to 1000u particle size analysis, (method not recorded)