Project Name: Geraldton land resources survey

Project Code: GTN Site ID: 1406 Observation ID: 1

No Data

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary Locality:
Date Desc.: 15/02/91 Elevation:

Date Desc.: 15/02 Map Ref.:

Map Ref.:Rainfall:No DataNorthing/Long.:6899054 AMG zone: 50Runoff:No DataEasting/Lat.:299214 Datum: AGD84Drainage:Well drained

Geology

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Land Form

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 Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ASodic Petrocloic Red KandosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Cultivation. Rainfed

Vegetation: Surface Coarse

Profile

A11 0 - 0.1 m Dusky red (10R3/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains

prominent) fabric;

Dry; Field pH 6 (pH meter); Abrupt change to -

A12 0.1 - 0.2 m Dark red (10R3/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains

prominent) fabric; Dry; Strong consistence; Field pH 6 (pH meter); Clear change to -

B21 0.2 - 0.4 m Dark red (10R3/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains

prominent) fabric; Dry; Strong consistence; Field pH 7.2 (pH meter); Gradual change to -

B22 0.4 - 0.75 m Dark red (10R3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric;

Moderately moist;
Field pH 7.7 (pH meter); Gradual change to -

riola pri rii (pri motor), Gradual change te

B23 0.75 - 1.05 m Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Field pH

6.5 (pH meter); Gradual change to -

B24 1.05 - 1.35 m Dark red (2.5YR3/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Moderately

moist; Field pH 6.5 (pH meter); Gradual change to -

B25 1.35 - 1.63 m Red (2.5YR4/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Moderately moist; 2-

10%, fine gravelly, 2-6mm, angular, Calcarenite, coarse fragments; Field pH 8 (pH

meter);

Morphological Notes

A11 MKSL

B25 slight calcareous reaction, rock very highly calcareous

Observation Notes

Site Notes

Red earth over calcrete, calcrete ridges in paddock calcrete at 163cm depth Bulked 0-10cm 10r 3/4 pH6.0

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Laboratory	Test F	Results:
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Depth	рН	1:5 EC	Ex Ca	changeal Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	- Cu	9			(+)/kg			%
0 - 0.1	5.7B 6.4H 5.8B 6.6H	13B 12B	2.05H 1.94H	0.61 0.5	0.76 0.76	0.13 0.1	<0.02J 0.02J		3.55D 3.3D	
0 - 0.1	5.7B 6.4H 5.8B 6.6H	13B 12B	2.05H 1.94H	0.61 0.5	0.76 0.76	0.13 0.1	<0.02J 0.02J		3.55D 3.3D	
0.1 - 0.2	5.1B 6.2H	3B	2.15H	0.5	0.396	0.14	0.03J		3.186D	
0.2 - 0.4	6.6B 7.5H	4B	3.06A	0.72	0.3	0.22			4.3D	
0.4 - 0.75	6.8B 7.5H	4B	2.73A	1.3	0.09	0.26			4.38D	
0.75 - 1.05	6.4B 7.1H	4B	2.12A	1.85	0.06	0.47			4.5D	
1.05 - 1.35	5.8B 7.2H	6B	3.5A	2.94	0.11	1.03			7.58D	
1.35 - 1.63	8B 8.8H	25B	7.25E	4.2	0.22	1.64		17B	13.31D	9.65

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size GV CS FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%	
0 - 0.1 6.8		0.67D							2.3
		0.55D							2.6
		6.8							
0 - 0.1 6.8		0.67D							2.3
		0.55D							2.6
		6.8							
0.1 - 0.2 13.9		0.43D							2.9
0.2 - 0.4 16.6		0.21D							3.5
0.4 - 0.75		0.11D							3
16.6									
0.75 - 1.05 17.5		0.08D							3.2
1.05 - 1.35		0.08D							3.5
24.4									
1.35 - 1.63 23.9	3C	0.11D							8.5

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1 CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1 K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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

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

15C1_CEC

CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

Project Code: GTN Site ID: 1406 Observation 1 **Agency Name:** Agriculture Western Australia 15C1 K Exchangeable bases and 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_MG soluble salts 15C1_NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts 15E1 AL Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts 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 15E1 MN Exchangeable bases (Mn2+) 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) 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 Organic carbon (%) - Uncorrected Walkley and Black method Bicarbonate-extractable phosphorus (not recorded) 6A1_UC 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 NR C Clay (%) - Not recorded Sand (%) - Not recorded arithmetic difference, auto generated P10_NR_Saa P10_NR_Z Silt (%) - Not recorded P10106_150 106 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) P10150_180 P10180_300 P10300 600 300 to 600u particle size analysis, (method not recorded)

600 to 1000u particle size analysis, (method not recorded)

Geraldton land resources survey

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P106001000