

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1424 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 04/09/89	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6850602 AMG zone: 50	Runoff: No Data
Easting/Lat.: 282802 Datum: AGD84	Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** No Data

Morph. Type: Lower-slope	Relief: 10 metres
Elem. Type: No Data	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Mesotrophic Red Chromosol	Principal Profile Form: Dr2.52
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site

Vegetation:

Surface Coarse

Profile

A11	0 - 0.05 m	Reddish brown (5YR4/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Field pH 6 (pH meter); Abrupt change to -
A12	0.05 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Field pH 5.7 (pH meter); Clear change to -
B21	0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 5.7 (pH meter);
B22	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Field pH 5.7 (pH meter);
B23	0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Field pH 6.2 (pH meter);
B24	0.4 - 0.5 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Field pH 7 (pH meter);
B25	0.5 - 0.7 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Field pH 7.5 (pH meter);
B3	0.7 - 0.88 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Field pH 6.2 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Red duplex, some grit throughout profile layers 3-8 have many angular pores as well 0-10cm 5% ang qz 2-6mm, <2% ang qz 6-20mm 10-75cm <2% ang qz 6-20mm, 10% ang qz 2-6mm some Fe nodules present 75-85cm LAYER 1-4 MK, LAYER 7 LC SANDY

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	4.9B	7B	1.2H	0.37	0.57	0.13	0.07J		2.27D	
	5.9H									
0.05 - 0.1	4.5B	4B	1.08H	0.33	0.37	0.07	0.17J		1.85D	
	5.5H									
0.1 - 0.2	4.4B	5B	2.03H	0.76	0.4	0.1	0.22J		3.29D	
	5.2H									
0.2 - 0.3	4.9B	6B	3.22H	1.47	0.39	0.14	0.04J		5.22D	
	5.5H									
0.3 - 0.4	5.8B	6B	3.24H	2	0.28	0.18	<0.02J		5.7D	
	6.2H									
0.4 - 0.5	6.2B	6B	3.42H	2.84	0.19	0.23	0.02J		6.68D	
	6.8H									
0.5 - 0.7	6.4B	5B	2.73A	2.86	0.1	0.22			5.91D	
	7.1H									
0.7 - 8.8	6.1B	5B	2.87H	3.52	0.14	0.31	<0.02J		6.84D	
	7H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
								%
0 - 0.05		0.54D						6.2
4.3								
0.05 - 0.1		0.31D						6.6
7.7								
0.1 - 0.2		0.22D						5.8
24.4								
0.2 - 0.3		0.22D						5.6
39.6								
0.3 - 0.4		0.15D						6.3
40.5								
0.4 - 0.5		0.13D						8.2
39.4								
0.5 - 0.7		0.08D						9.7
24.6								
0.7 - 8.8		0.1D						8.3
11.5								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15E1_AL	Exchangeable Al - 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

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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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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_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)