

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1401 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	13/02/91	Elevation:	25 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6813647 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	273164 Datum: AGD84	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	2 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	<1 %	Aspect:	No Data

Surface Soil Condition Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Chromosol		Principal Profile Form:	Dr4.52
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11	0 - 0.13 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; Weak consistence; Field pH 5.7 (pH meter); Abrupt change to -
A2	0.13 - 0.37 m	Red (2.5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Dry;
Strong		consistence; Field pH 5.7 (pH meter); Clear change to -
B21	0.37 - 0.5 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric;
Dry; Firm		consistence; Field pH 6 (pH meter); Clear change to -
B22	0.5 - 0.75 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric;
Dry; Strong		consistence; Field pH 6.5 (pH meter);
B23	0.75 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric;
Moderately		moist; Firm consistence; Field pH 7 (pH meter);
B24	0.9 - 1.3 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric;
Moderately		moist; Firm consistence; Field pH 7 (pH meter);

Morphological Notes

A11	macro pores, angular pores, CMKS
A2	(cemented) angular pores, CMKS
B22	MKSC

Observation Notes

Site Notes

Layer 4-6 texture increase with depth. Quite probable subsoil pedality

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1401
Agency Name: Agriculture Western Australia

Observation 1

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 - 0.13	4.8B 5.6H	4B	0.75H	0.12	0.12	0.06	0.1J		1.05D	
0 - 0.1	5.4B 6H	24B	5.44H	3.58	0.64	0.81	<0.02J		10.47D	
0.13 - 0.37	4.5B 5.6H	2B	0.77H	0.16	0.15	0.03	0.17J		1.11D	
0.37 - 0.5	5.4B 6.3H	4B	2.36H	0.91	0.24	0.12	<0.02J		3.63D	
0.5 - 0.75	5.7B 6.6H	3B	2.63H	1.43	0.23	0.14	<0.02J		4.43D	
0.75 - 0.9	6.2B 7.1H	5B	3.89H	2.7	0.26	0.29	<0.02J		7.14D	
0.9 - 1.3	6.3B 7.2H	6B	3.05H	2.05	0.22	0.3	<0.02J		5.62D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.13		0.39D						4.3
0 - 0.1		0.87D						23.6
0.13 - 0.37		0.17D						5.1
0.37 - 0.5		0.11D						5.9
0.5 - 0.75		0.13D						5.7
0.75 - 0.9		0.08D						6.8
0.9 - 1.3		0.1D						4.7

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
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
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

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1401 **Observation** 1
Agency Name: Agriculture Western Australia

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)