

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1409 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	20/02/91	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6835721 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	390083 Datum: AGD84	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Paralithic Brown-Orthic Tenosol		Principal Profile Form:	Uc5.21
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11	0 - 0.07 m	Dark yellowish brown (10YR4/4-Moist); ; Clayey fine sand; Massive grade of structure; Sandy (grains
		prominent) fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Gravel, coarse
		fragments; Field pH 5.7 (pH meter); Abrupt change to -
B21	0.07 - 0.22 m	Strong brown (7.5YR4/6-Moist); ; Clayey fine sand; Massive grade of structure; Earthy fabric; Dry;
		Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.7 (pH
		meter); Clear change to -
B22	0.22 - 0.45 m	Strong brown (7.5YR4/6-Moist); ; Clayey fine sand; Massive grade of structure; Earthy fabric; Dry;
		Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.2 (pH
		meter);
	- m	;

Morphological Notes

granite

Observation Notes

Site Notes

some grit in all layers upper simple slope rock piles in paddock; layer 2 heavier texture than layer 3; weathered granite at 45cm; CFMS+ layer 1 has a few pores; layers 2-3 have mostly angular pores

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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 - 0.07	4.9B 6H	6B	1.27H	0.35	0.64	0.08	0.09J		2.34D	
0 - 0.1	4.8B 5.9H	4B	1.52H	0.38	0.47	0.09	0.11J		2.46D	
0.07 - 0.22	4.5B 5.6H	2B	1.88H	0.37	0.22	0.06	0.14J		2.53D	
0.22 - 0.45	5.8B 6.4H	9B	2.54H	0.95	0.2	0.29	<0.02J		3.98D	

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 - 0.07		0.66D						4.4
7.4								
0 - 0.1		0.64D						5.1
7.6								
0.07 - 0.22		0.57D						4.4
10								
0.22 - 0.45		0.32D						4.9
10.1								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMJR	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
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)

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