Project Name: **Geraldton land resources survey**
Project Code: **GTN** **Site ID:** **1410** **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.:	6830765 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	383583 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:	Hillslope	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Soft, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Paralithic Leptic Tenosol **Principal Profile Form:** Gn2.11
ASC Confidence: **Great Soil Group:** N/A
No analytical data and little or no knowledge of this soil.

Site

Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A1p 0 - 0.11 m Reddish brown (5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Abrupt change to -

B21 0.11 - 0.25 m Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Clear change to -

B22 0.25 - 0.47 m Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Granite, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Granite, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Granite, coarse fragments; Field pH 6 (pH meter);

R - m Rock

Morphological Notes

A1p	ploughed weak consistence,few pores, MK sandy S
B21	FM, some grit mostly angular pores
B22	some grit mostly angular pores, texture code was SCLFS, 5yr 4/4 red
R	granite

Observation Notes

Site Notes

Red loam over granite, surface condition soft (ploughed) hard (native) drainage mod well

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.11	4.4B 5.3H	3B	0.69H	0.31	0.34	0.03	0.23J		1.37D	
0 - 0.1	4.4B 5.3H	3B	0.71H	0.31	0.32	0.04	0.24J		1.38D	
0.11 - 0.25	4.3B 5.3H	2B	1.1H	0.36	0.17	0.04	0.31J		1.67D	
0.25 - 0.47	4.6B 5.7H	2B	1.68H	0.67	0.08	0.09	0.09J		2.52D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11 5.4		0.56D									5.6
0 - 0.1 5.5		0.56D									6.3
0.11 - 0.25 11.1		0.5D									6.5
0.25 - 0.47 13.1		0.41D									6.3

Laboratory Analyses Completed for this profile

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