

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1416 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 21/02/91	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6760947 AMG zone: 50	Runoff: No Data
Easting/Lat.: 413612 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: No Data	Pattern Type: No Data
Morph. Type: Simple-slope	Relief: No Data
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
Acidic Ferric-Petroferric Brown-Orthic Tenosol	Principal Profile Form: Gn2.12
ASC Confidence:	Great Soil Group: N/A

No analytical data are available but confidence is fair.

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A1	0 - 0.1 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 5.5 (pH meter); Abrupt change to -
B1	0.1 - 0.28 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; 2-10%, medium change to -
B21	0.28 - 0.45 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; 20-50%, medium 60mm, angular, Gravel, coarse fragments; Field pH 5.5 (pH meter); Clear change to -
B22	0.45 - 0.82 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Ironstone, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Ironstone, coarse fragments; Field pH 6.2 (pH meter);

Morphological Notes

A1	FM some grit layer
B1	FM some grit layer, few pores
B21	FM some grit layer, angular pores earthy
B22	FM some grit layer, coarse fragments weathered Lt

Observation Notes

Site Notes

Gravelly sandy loam, upper simple slope PPF: Gn2.12/Uc5.22

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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 - 0.1	4.2B	6B	0.5H	0.23	0.57	0.09	0.38J		1.39D	
	5.1H	7B	0.72H	0.34	0.6	0.08	0.26J		1.74D	
	4.4B									
	5.3H									
0 - 0.1	4.2B	6B	0.5H	0.23	0.57	0.09	0.38J		1.39D	
	5.1H	7B	0.72H	0.34	0.6	0.08	0.26J		1.74D	
	4.4B									
	5.3H									
0.1 - 0.28	4.1B	5B	0.56H	0.2	0.24	0.05	0.57J		1.05D	
	4.7H									
0.28 - 0.45	4.3B	4B	1.01H	0.56	0.14	0.06	0.23J		1.77D	
	5H									
0.45 - 0.82	5.3B	17B	0.51H	3.17	0.27	0.81	<0.02J		4.76D	
	6.1H									
0.45 - 0.82	5.3B	17B	0.51H	3.17	0.27	0.81	<0.02J		4.76D	
	6.1H									

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 - 0.1		0.76D						4.4
10.6		0.72D						3.9
		10.6						
0 - 0.1		0.76D						4.4
10.6		0.72D						3.9
		10.6						
0.1 - 0.28		0.48D						4.9
14								
0.28 - 0.45		0.3D						4.3
17.8								
0.45 - 0.82		0.19D						4.3
17.2								
0.45 - 0.82		0.19D						4.3
17.2								

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)

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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)