

Project Name: Geraldton land resources survey
Project Code: GTN **Site ID:** 1405 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	15/02/91	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6900384 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	302169 Datum: AGD84	Drainage:	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:	Gently undulating plains <9m 1-3%	Pattern Type:	Sand plain
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Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcareous Regolithic Yellow-Orthic Tenosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A11	0 - 0.12 m	Yellowish brown (10YR5/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; Field pH 6 (pH meter); Abrupt change to -
A12	0.12 - 0.28 m	Yellowish brown (10YR5/6-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; Field pH 6 (pH meter); Clear change to -
B21	0.28 - 0.46 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; Field pH 6.7 (pH meter); Clear change to -
B22	0.46 - 0.65 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Field pH 7.2 (pH meter); Gradual change to -
B23	0.65 - 0.95 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Field pH 8 (pH meter); Gradual change to -
B24	0.95 - 1.25 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8 (pH meter); Gradual change to -
B25	1.25 - 1.55 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.7 (pH meter); Gradual change to -
B26	1.55 - 1.95 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.7 (pH meter);

Morphological Notes

A11	MK, very weak consistence
A12	MK, very weak consistence, weakly compacted

B21	MK, very weak consistence, weakly compacted. few pores
B22	MK, very weak consistence. few pores
B23	MK, very weak consistence. few pores
B24	MK, very weak consistence. few pores
B25	MK, very weak consistence. few pores
B26	MK, very weak consistence. few pores

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Observation Notes

Site Notes

Deep yellow sand, boundary, good sandplain, Bulkcd 0-10cm 10yr5/4 pH6.0

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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 - 0.12	5.1B 5.9H	3B	0.92H	0.2	0.08	0.02	0.04J		1.22D	
0 - 0.1	5.2B 6.1H	2B	0.86H	0.19	0.07	0.02	0.03J		1.14D	
0.12 - 0.28	5.2B 6.2H	1B	1.13H	0.2	0.06	<0.02	0.02J		1.4D	
0.28 - 0.46	6.2B 7.1H	1B	0.91A	0.24	0.07	0.03			1.25D	
0.46 - 0.65	6.6B 7.4H	1B	0.87A	0.39	0.05	0.04			1.35D	
0.65 - 0.95	7B 7.8H	2B	0.95A	0.52	0.14	0.03			1.64D	
0.95 - 1.25	7.3B 8.2H	2B	0.73E	0.33	0.04	<0.02		2B	1.11D	
1.25 - 1.55	7.8B 8.5H	2B	1.02E	0.53	0.08	0.07		2B	1.7D	3.50
1.55 - 1.95	7.8B 8.4H	3B	0.89E	0.53	0.06	0.03		2B	1.51D	1.50

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 - 0.12		0.3D						
4.2								
0 - 0.1		0.31D						
3.8								
0.12 - 0.28		0.2D						
5.8								
0.28 - 0.46		0.1D						
6.7								
0.46 - 0.65		0.07D						
8								
0.65 - 0.95	3C	0.05D						
8.6								
0.95 - 1.25	3C	0.04D						
8.6								
1.25 - 1.55	3C	0.04D						
9.5								
1.55 - 1.95	2C	0.03D						
10.4								

Laboratory Analyses Completed for this profile

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

15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

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15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ , Mg ²⁺ , 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 (Mn ²⁺) 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
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)
19B_NR	Calcium Carbonate (CaCO ₃) - 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)