Project Name: **Geraldton land resources survey**
Project Code: **GTN** **Site ID:** **1404** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 15/02/91
Map Ref.:
Northing/Long.: 6892674 AMG zone: 50
Easting/Lat.: 240046 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

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

Land Form

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

Surface Soil Condition

Loose

Erosion:

Soil Classification

Australian Soil Classification:
Basic Arenic Bleached-Orthic Tenosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site

Cultivation. Rainfed

Vegetation:

Surface Coarse

Profile

A1 0 - 0.15 m Dark grey (10YR4/1-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Water repellent; Field pH 6.7 (pH meter); Abrupt change to -

A2 0.15 - 0.3 m Light brownish grey (10YR6/2-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.7 (pH meter); Clear change to -

A3 0.3 - 0.5 m Very pale brown (10YR7/4-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 7 (pH meter); Gradual change to -

B21 0.5 - 0.8 m Very pale brown (10YR7/4-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 7 (pH meter); Gradual change to -

B22 0.8 - 1.25 m Yellow (10YR7/6-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 7 (pH meter); Clear change to -

B23 1.25 - 1.5 m Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 7 (pH meter);

Morphological Notes

A2 very weak consistence
A3 very weak consistence
B21 very weak consistence
B22 very weak consistence

Observation Notes

Site Notes

grey sand over deep pale yellow sand, Bulked 0-10cm 10yr4/1 pH 6.7 <2% angular qz 2-6mm

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.15	5.6B 6.3H	3B	1.75H	0.17	<0.02	0.04	<0.02J		1.97D	
0 - 0.1	5.8B 6.6H	2B	2.28H	0.21	<0.02	0.04	<0.02J		2.54D	
0.15 - 0.3	6.1B 6.7H	1B	0.32H	0.04	<0.02	<0.02	<0.02J		0.38D	
0.3 - 0.5	6B 6.5H	1B	0.12H	<0.02	<0.02	<0.02	<0.02J		0.15D	
0.5 - 0.8	6.1B 6.7H	1B	0.1H	<0.02	<0.02	<0.02	<0.02J		0.13D	
0.8 - 1.25	6B 6.8H	1B	0.19H	0.04	<0.02	<0.02	<0.02J		0.25D	
1.25 - 1.5	6B 6.8H	2B	0.68H	0.1	<0.02	<0.02	<0.02J		0.8D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size			Analysis
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		0.38D									1.4
0.8											
0 - 0.1		0.52D									1.1
0.6											
0.15 - 0.3		0.08D									0.7
0.6											
0.3 - 0.5		0.03D									1.3
0.5											
0.5 - 0.8		0.03D									1.7
0.1											
0.8 - 1.25		0.04D									1.7
1.1											
1.25 - 1.5		0.15D									1.5
0.8											

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
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

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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)