Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1102** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: B. Purdie
Date Desc.: 21/04/98
Map Ref.:
Northing/Long.: 6524545 AMG zone: 50
Easting/Lat.: 430393 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 3 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Soft

Erosion:

Soil Classification

Australian Soil Classification:
Brown Kandosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: K-Dy5.52
Great Soil Group: N/A

Site

No effective disturbance. Natural

Vegetation:

Surface Coarse

Profile

A1c 0 - 0.14 m Black (10YR2/1-Moist); ; Sand; Weak grade of structure, 2-5 mm, ; Weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 4.9 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -

B1c 0.14 - 0.5 m Yellowish brown (10YR5/4-Moist); ; Sand; Firm consistence; 50-90%, medium gravelly, 6-20mm, rounded, Ferricrete, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Clear, Irregular change to -

B21c 0.5 - 0.85 m Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Firm consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Gradual, Wavy change to -

B22c 0.85 - 1.38 m Brown (7.5YR5/4-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; Sandy clay loam; Strong consistence; 50-90%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter); Few, fine (1-2mm) roots;

1.38 - m ; Sandy clay loam;

Morphological Notes

Observation Notes

Site Notes

Photos Roll 58/1 & 3. Abundant ferruginous gravels throughout, described as ferruginous coarse fragments. Irregular cementation into stones 20-60cm but no continuous pan.

Project Name: Chittering land resources survey

Project Code: CHT Site ID: 1102 Observation 1

Agency Name: Agriculture Western Australia

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 - 0.14	3.8B 4.9H	6B	4.39H	0.81	0.28	0.23	1.97J		5.71D	
0 - 0.14	3.8B 4.9H	6B	4.39H	0.81	0.28	0.23	1.97J		5.71D	
0 - 0.14	3.8B 4.9H	6B	4.39H	0.81	0.28	0.23	1.97J		5.71D	
0.14 - 0.5	5.5B 6.5H	2B	0.89H	0.42	0.04	0.03	0.03J		1.38D	
0.14 - 0.5	5.5B 6.5H	2B	0.89H	0.42	0.04	0.03	0.03J		1.38D	
0.14 - 0.5	5.5B 6.5H	2B	0.89H	0.42	0.04	0.03	0.03J		1.38D	
0.5 - 0.85	5.5B 6.6H	2B	1.34A	0.69	0.09	0.08			2.2D	
0.5 - 0.85	5.5B 6.6H	2B	1.34A	0.69	0.09	0.08			2.2D	
0.5 - 0.85	5.5B 6.6H	2B	1.34A	0.69	0.09	0.08			2.2D	
0.85 - 1.38	5.9B 6.8H	2B	1.1A	0.88	0.08	0.07			2.13D	
0.85 - 1.38	5.9B 6.8H	2B	1.1A	0.88	0.08	0.07			2.13D	
0.85 - 1.38	5.9B 6.8H	2B	1.1A	0.88	0.08	0.07			2.13D	

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 - 0.14		5.76D		88B	0.156E						2.1
2.7											
0 - 0.14		5.76D		88B	0.156E						2.1
2.7											
0 - 0.14		5.76D		88B	0.156E						2.1
2.7											
0.14 - 0.5		0.38D		25B	0.013E						2.9
4.3											
0.14 - 0.5		0.38D		25B	0.013E						2.9
4.3											
0.14 - 0.5		0.38D		25B	0.013E						2.9
4.3											
0.5 - 0.85		0.45D		31B	0.018E						3.3
13.8											
0.5 - 0.85		0.45D		31B	0.018E						3.3
13.8											
0.5 - 0.85		0.45D		31B	0.018E						3.3
13.8											
0.85 - 1.38		0.24D		40B	0.022E						3.7
19.1											
0.85 - 1.38		0.24D		40B	0.022E						3.7
19.1											
0.85 - 1.38		0.24D		40B	0.022E						3.7
19.1											

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
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

Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1102** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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
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
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
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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_20_100	20 to 100u particle size analysis, (method not recorded)
P10_gt2m	> 2mm 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
P10100_200	100 to 200u particle size analysis, (method not recorded)
P10200_600	200 to 600u particle size analysis, (method not recorded)
P106002000	600 to 2000u particle size analysis, (method not recorded)