Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1104** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	B. Purdie	**Locality:**	
Date Desc.:	21/04/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6531913 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	420936 Datum: AGD84	**Drainage:**	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	12 %	**Aspect:**	No Data

Surface Soil Condition Firm

Erosion: (sheet) (rill)

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Red Chromosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dr4.52
Great Soil Group: N/A

Site Vegetation: Complete clearing. Pasture, native or improved, cultivated at some stage

Surface Coarse

Profile

A1c 0 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, ; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 5.8 (pH meter); Common, fine (1-2mm) roots; Clear change to -

A3c 0.1 - 0.3 m Brown (7.5YR4/4-Moist); ; Fine sandy loam; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Clear change to -

B21tc 0.3 - 0.5 m Yellowish red (5YR5/6-Moist); ; Sandy light clay; Massive grade of structure; Dry; Strong consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 6.2 (pH meter); Few, medium (2-5mm) roots; Clear change to -

B22tc 0.5 - 0.85 m Yellowish red (5YR5/8-Moist); , 7.5YR58, 10-20% , 0-5mm, Distinct; Medium clay; Massive grade of structure; Dry; Strong consistence; 20-50%, coarse fragments; Field pH 6.2 (pH meter); Few, medium (2-5mm) roots; Clear change to -

B23t 0.85 - 1 m Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Massive grade of structure; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Granite, coarse fragments; Field pH 5.8 (pH meter); Few, medium (2-5mm) roots; Clear change to -

Ct 1 - 1.2 m Strong brown (7.5YR5/6-Moist); , 7.5YR82, 20-50% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 5.5 (pH meter);

1.2 - m ; Light clay;

Morphological Notes

Observation Notes

Site Notes

Photos Roll 58 - 7/8. Gravelly red shallow duplex

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Project Code: CHT Site ID: 1104 Observation 1
Agency Name: Agriculture Western Australia

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 - 0.1	4.5B 5.5H	4B	1.84H	0.39	0.08	0.18	1.28J		2.49D	
0 - 0.1	4.5B 5.5H	4B	1.84H	0.39	0.08	0.18	1.28J		2.49D	
0 - 0.1	4.5B 5.5H	4B	1.84H	0.39	0.08	0.18	1.28J		2.49D	
0.1 - 0.3	4.9B 6.1H	2B	1.8H	0.4	0.02	0.09	0.23J		2.31D	
0.1 - 0.3	4.9B 6.1H	2B	1.8H	0.4	0.02	0.09	0.23J		2.31D	
0.1 - 0.3	4.9B 6.1H	2B	1.8H	0.4	0.02	0.09	0.23J		2.31D	
0.3 - 0.5	5B 6.3H	1B	1.31H	0.8	<0.02	0.06	0.07J		2.18D	
0.3 - 0.5	5B 6.3H	1B	1.31H	0.8	<0.02	0.06	0.07J		2.18D	
0.3 - 0.5	5B 6.3H	1B	1.31H	0.8	<0.02	0.06	0.07J		2.18D	
0.5 - 0.85	5.3B 6.4H	3B	1.52H	3.03	0.02	0.27			4.84D	
0.5 - 0.85	5.3B 6.4H	3B	1.52H	3.03	0.02	0.27			4.84D	
0.5 - 0.85	5.3B 6.4H	3B	1.52H	3.03	0.02	0.27			4.84D	
0.77 - 0.82										
0.85 - 1	4.7B 6.1H	4B	1.65H	5.56	<0.02	0.69	0.07J		7.91D	
0.85 - 1	4.7B 6.1H	4B	1.65H	5.56	<0.02	0.69	0.07J		7.91D	
0.85 - 1	4.7B 6.1H	4B	1.65H	5.56	<0.02	0.69	0.07J		7.91D	
1 - 1.2	4.5B 6H	4B	1.49H	5.88	<0.02	1.1	0.18J		8.48D	
1 - 1.2	4.5B 6H	4B	1.49H	5.88	<0.02	1.1	0.18J		8.48D	
1 - 1.2	4.5B 6H	4B	1.49H	5.88	<0.02	1.1	0.18J		8.48D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		4.38D		500B	0.278E						0.4
0.8											
0 - 0.1		4.38D		500B	0.278E						0.4
0.8											
0 - 0.1		4.38D		500B	0.278E						0.4
0.8											
0.1 - 0.3		0.81D		170B	0.042E					0.9	0.9
0.9											
0.1 - 0.3		0.81D		170B	0.042E					0.9	0.9
0.9											
0.1 - 0.3		0.81D		170B	0.042E					0.9	0.9
0.9											
0.3 - 0.5		0.34D		100B	0.02E						1
39.6											
0.3 - 0.5		0.34D		100B	0.02E						1
39.6											
0.3 - 0.5		0.34D		100B	0.02E						1
39.6											

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0.5 - 0.85	0.29D	76B	0.025E			11.8
53.1						
0.5 - 0.85	0.29D	76B	0.025E			11.8
53.1						
0.5 - 0.85	0.29D	76B	0.025E			11.8
53.1						
0.77 - 0.82				1.50		
0.85 - 1	0.24D	55B	0.023E			11.2
49.9						
0.85 - 1	0.24D	55B	0.023E			11.2
49.9						
0.85 - 1	0.24D	55B	0.023E			11.2
49.9						
1 - 1.2	0.14D	39B	0.011E			15
23.8						
1 - 1.2	0.14D	39B	0.011E			15
23.8						
1 - 1.2	0.14D	39B	0.011E			15
23.8						

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
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
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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
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
P10_PB_FS	Fine sand (%) - Plummet balance
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)
P3A_NR	Bulk density - Not recorded