Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **0939** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	John Bessell-Browne	**Locality:**	
Date Desc.:	01/01/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6504123 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	406674 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:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Erosion: (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Grey Chromosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy
Great Soil Group: N/A

Site Vegetation:

Surface Coarse

Profile

A1 0 - 0.02 m Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Weak grade of structure, 5-10 mm, ; Earthy fabric; Very weak consistence; Field pH 5.4 (pH meter); Abundant, fine (1-2mm) roots; Clear, Smooth change to -

B21wc 0.02 - 0.2 m Brown (10YR4/3-Moist); ; Fine sandy loam; Earthy fabric; Firm consistence; 2-10%, Ferricrete, coarse fragments; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 4.9 (pH meter); Common, fine (1-2mm) roots; Clear, Smooth change to -

B22g 0.2 - 0.4 m Weak red (2.5YR4/2-Moist); ; Fine sandy loam; Earthy fabric; Very firm consistence; 2-10%, Ferricrete, coarse fragments; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.1 (pH meter); Clear, Smooth change to -

B23wc 0.4 - 0.75 m Brown (10YR5/3-Moist); ; Fine sandy loam; Earthy fabric; Very firm consistence; 20-50%, Ferricrete, coarse fragments; 0-2%, Quartz, coarse fragments; Field pH 5.6 (pH meter); Few, fine (1-2mm) roots; Gradual, Wavy change to -

B24tc 0.75 - 1.2 m Very pale brown (10YR7/3-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; Sandy clay loam; Earthy fabric; Very firm consistence; 20-50%, Ferricrete, coarse fragments; 2-10%, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.8 (pH meter); Few, fine (1-2mm) roots;

B25tc 1.2 - 1.5 m Yellowish brown (10YR5/6-Moist); , 10YR58, 2-10% , 0-5mm, Distinct; Light medium clay; Earthy fabric; Very firm consistence; 20-50%, Ferricrete, coarse fragments; 2-10%, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6 (pH meter);

1.5 - m ; Light medium clay;

Morphological Notes

B21wc allubvial fine roots

Observation Notes

Site Notes

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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 - 0.02	4.7B 5.5H	8B	2.6H	1.12	0.13	0.08	0.11J		3.93D	
0 - 0.02	4.7B 5.5H	8B	2.6H	1.12	0.13	0.08	0.11J		3.93D	
0 - 0.02	4.7B 5.5H	8B	2.6H	1.12	0.13	0.08	0.11J		3.93D	
0.02 - 0.2	4.4B 5.3H	6B	1.19H	0.78	0.02	0.12	0.45J		2.11D	
0.02 - 0.2	4.4B 5.3H	6B	1.19H	0.78	0.02	0.12	0.45J		2.11D	
0.02 - 0.2	4.4B 5.3H	6B	1.19H	0.78	0.02	0.12	0.45J		2.11D	
0.08 - 0.13										
0.2 - 0.4	4.4B 5.3H	5B	1.62H	1.28	<0.02	0.16	1.07J		3.07D	
0.2 - 0.4	4.4B 5.3H	5B	1.62H	1.28	<0.02	0.16	1.07J		3.07D	
0.2 - 0.4	4.4B 5.3H	5B	1.62H	1.28	<0.02	0.16	1.07J		3.07D	
0.28 - 0.33										
0.39 - 0.44										
0.4 - 0.75	5.2B 5.6H	38B	0.76H	1.41	0.04	0.29	0.06J		2.5D	
0.4 - 0.75	5.2B 5.6H	38B	0.76H	1.41	0.04	0.29	0.06J		2.5D	
0.4 - 0.75	5.2B 5.6H	38B	0.76H	1.41	0.04	0.29	0.06J		2.5D	
0.75 - 1.2	6B 6.9H	8B	0.74A	1.62	0.12	0.51			2.99D	
0.75 - 1.2	6B 6.9H	8B	0.74A	1.62	0.12	0.51			2.99D	
0.75 - 1.2	6B 6.9H	8B	0.74A	1.62	0.12	0.51			2.99D	
0.8 - 0.85										
1.2 - 1.5	6.2B 6.8H	10B	0.83A	2.37	0.2	0.63			4.03D	
1.2 - 1.5	6.2B 6.8H	10B	0.83A	2.37	0.2	0.63			4.03D	
1.2 - 1.5	6.2B 6.8H	10B	0.83A	2.37	0.2	0.63			4.03D	

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 - 0.02		2.34D		170B	0.206E						3.1
4.7											
0 - 0.02		2.34D		170B	0.206E						3.1
4.7											
0 - 0.02		2.34D		170B	0.206E						3.1
4.7											
0.02 - 0.2		1.05D		140B	0.087E						4.8
13.5											
0.02 - 0.2		1.05D		140B	0.087E						4.8
13.5											
0.02 - 0.2		1.05D		140B	0.087E						4.8
13.5											

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0.08 - 0.13				1.40	
0.2 - 0.4	1.67D	170B	0.101E		13.8
18.4					
0.2 - 0.4	1.67D	170B	0.101E		13.8
18.4					
0.2 - 0.4	1.67D	170B	0.101E		13.8
18.4					
0.28 - 0.33				1.40	
0.39 - 0.44				1.60	
0.4 - 0.75	0.3D	50B	0.025E		4.2
13.8					
0.4 - 0.75	0.3D	50B	0.025E		4.2
13.8					
0.4 - 0.75	0.3D	50B	0.025E		4.2
13.8					
0.75 - 1.2	0.16D	50B	0.015E		4
27.1					
0.75 - 1.2	0.16D	50B	0.015E		4
27.1					
0.75 - 1.2	0.16D	50B	0.015E		4
27.1					
0.8 - 0.85				1.80	
1.2 - 1.5	0.07D	47B	0.009E		4.7
30.5					
1.2 - 1.5	0.07D	47B	0.009E		4.7
30.5					
1.2 - 1.5	0.07D	47B	0.009E		4.7
30.5					

Laboratory Analyses Completed for this profile

13B1_AL	Pyrophosphate-extractable aluminium
13B1_FE	Pyrophosphate-extractable iron
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
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
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
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_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_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
P10106_150	106 to 150u particle size analysis, (method not recorded)

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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)
P3A_NR	Bulk density - Not recorded