

**Project Name:** Chittering land resources survey  
**Project Code:** CHT **Site ID:** 0940 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> John Bessell-Browne	<b>Locality:</b>
<b>Date Desc.:</b> 13/05/97	<b>Elevation:</b> 70 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6505689 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 405599 Datum: AGD84	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> No Data	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> No Data	<b>Slope Category:</b> No Data
<b>Slope:</b> 3 %	<b>Aspect:</b> No Data

#### Surface Soil Condition

##### Erosion:

##### Soil Classification

**Australian Soil Classification:**  
 Ferric Mesotrophic Brown Chromosol

**ASC Confidence:**  
 Confidence level not specified

**Mapping Unit:** N/A  
**Principal Profile Form:** K-Dy5.51  
**Great Soil Group:** N/A

##### Site

##### Vegetation:

##### Surface Coarse

##### Profile

A1c 0 - 0.07 m Subangular blocky;  subangular,  Water repellent;	Very dark grey (10YR3/1-Moist); ; Loamy sand; Weak grade of structure, <2 mm, Rough-ped fabric; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter);
B11wc 0.07 - 0.2 m moist; Very fragments; Many Medium (2 -6	Brown (10YR4/3-Moist); ; Fine sandy loam; Sandy (grains prominent) fabric; Moderately weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse cutans, >50% of ped faces or walls coated, distinct; Very many (50 - 100 %), Ferruginous, mm), Nodules; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B12tc 0.2 - 0.6 m mm, Lenticular; fragments; Common	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Moderate grade of structure, 50-100 Moderately moist; Very firm consistence; 20-50%, subangular, Ironstone, coarse (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter);
B21tc 0.6 - 1 m Moderately moist; %),	Strong brown (7.5YR5/8-Moist); , 2.5YR73, 10-20% , 5-15mm, Distinct; Medium clay; Strong consistence; 20-50%, subangular, Ironstone, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter);
B22tc 1 - 1.3 m Moderate grade of subangular, distinct; Common fine (1-2mm)	Strong brown (7.5YR5/8-Moist); , 10YR72, 10-20% , 5-15mm, Distinct; Medium clay; structure, 50-100 mm, Angular blocky; Moderately moist; Strong consistence; 20-50%, Ironstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Common, roots;

1.3 - m ; Medium clay;

### Morphological Notes

### Observation Notes

### Site Notes

loam over clay

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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 - 0.07	5B 5.9H	9B	10.08H	4.63	0.27	0.31	0.04J		15.29D	
0 - 0.07	5B 5.9H	9B	10.08H	4.63	0.27	0.31	0.04J		15.29D	
0 - 0.07	5B 5.9H	9B	10.08H	4.63	0.27	0.31	0.04J		15.29D	
0.07 - 0.2	4.9B 6.4H	2B	1.46A	0.77	0.16	0.13			2.52D	
0.07 - 0.2	4.9B 6.4H	2B	1.46A	0.77	0.16	0.13			2.52D	
0.07 - 0.2	4.9B 6.4H	2B	1.46A	0.77	0.16	0.13			2.52D	
0.2 - 0.6	5.4B 6.4H	4B	1.62H	2.07	0.7	0.17			4.56D	
0.2 - 0.6	5.4B 6.4H	4B	1.62H	2.07	0.7	0.17			4.56D	
0.2 - 0.6	5.4B 6.4H	4B	1.62H	2.07	0.7	0.17			4.56D	
0.22 - 0.27										
0.6 - 1	5.6B 6.3H	7B	1.92H	2.75	0.55	0.26			5.48D	
0.6 - 1	5.6B 6.3H	7B	1.92H	2.75	0.55	0.26			5.48D	
0.6 - 1	5.6B 6.3H	7B	1.92H	2.75	0.55	0.26			5.48D	
0.7 - 0.75										
1 - 1.3	5.7B 6.2H	5B	1.43H	2.42	0.43	0.19			4.47D	
1 - 1.3	5.7B 6.2H	5B	1.43H	2.42	0.43	0.19			4.47D	
1 - 1.3	5.7B 6.2H	5B	1.43H	2.42	0.43	0.19			4.47D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07		7.39D		280B	0.433E						0.8
0.7											
0 - 0.07		7.39D		280B	0.433E						0.8
0.7											
0 - 0.07		7.39D		280B	0.433E						0.8
0.7											
0.07 - 0.2		0.8D		68B	0.056E						1.8
4.1											
0.07 - 0.2		0.8D		68B	0.056E						1.8
4.1											
0.07 - 0.2		0.8D		68B	0.056E						1.8
4.1											
0.2 - 0.6		0.59D		66B	0.026E						5.2
22.1											

0.2 - 0.6 22.1	0.59D	66B	0.026E		5.2
0.2 - 0.6 22.1	0.59D	66B	0.026E		5.2
0.22 - 0.27				1.80	
0.6 - 1 42	0.23D	62B	0.017E		5.1
0.6 - 1 42	0.23D	62B	0.017E		5.1
0.6 - 1 42	0.23D	62B	0.017E		5.1
0.7 - 0.75				1.80	

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1 - 1.3	0.13D	52B	0.012E	4.1
35.9				
1 - 1.3	0.13D	52B	0.012E	4.1
35.9				
1 - 1.3	0.13D	52B	0.012E	4.1
35.9				

**Laboratory Analyses Completed for this profile**

13B1_AL	Pyrophosphate-extractable aluminium
13B1_FE	Pyrophosphate-extractable iron
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_CMV	Exchangeable bases (Ca/Mg ratio) - 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)
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

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