

**Project Name:** Chittering land resources survey  
**Project Code:** CHT **Site ID:** 1112 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	B. Purdie	<b>Locality:</b>	
<b>Date Desc.:</b>	22/04/98	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6524995 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	398018 Datum: AGD84	<b>Drainage:</b>	Well drained

#### Geology

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

#### Land Form

**Rel/Slope Class:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	10 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Soft

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Humose Ferric Chernic Tenosol		<b>Principal Profile Form:</b>	K-Uc5.31
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

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

#### Vegetation:

**Surface Coarse** 10-20%, , subangular, Ironstone; 2-10%, , subangular, Ironstone

#### Profile

A1c	0 - 0.18 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky;
		Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse
		fragments; Water repellent; Field pH 6 (pH meter); Abundant, fine (1-2mm) roots; Clear, Smooth change
		to -
B21c	0.18 - 0.6 m	Brown (7.5YR4/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, ; Dry; Weak consistence; 50-
		90%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6.4 (pH meter);
		Many, fine (1-2mm) roots; Gradual, Smooth change to -
B22c	0.6 - 1 m	Reddish brown (5YR4/3-Moist); ; Sandy loam; Single grain grade of structure; Dry; Weak consistence;
		50-90%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6.5 (pH meter);
		Common, fine (1-2mm) roots; Clear, Smooth change to -
C	1 - 1.2 m	Yellowish red (5YR5/6-Moist); ; Clayey sand; Single grain grade of structure; Moderately moist; Firm
		consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6.6
		(pH meter); Few, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

Photos Roll 58-26/27. Marginal to Ferric, Mesotrophic, Red, Kandosol. probably more of a tenosol.

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.18	4.8B 5.7H	4B	9.32H	1.98	0.07	0.15	0.44J		11.52D	
0 - 0.18	4.8B 5.7H	4B	9.32H	1.98	0.07	0.15	0.44J		11.52D	
0 - 0.18	4.8B 5.7H	4B	9.32H	1.98	0.07	0.15	0.44J		11.52D	
0.18 - 0.6	5.1B 6.4H	2B	2.95H	1.47	0.06	0.07	0.16J		4.55D	
0.18 - 0.6	5.1B 6.4H	2B	2.95H	1.47	0.06	0.07	0.16J		4.55D	
0.18 - 0.6	5.1B 6.4H	2B	2.95H	1.47	0.06	0.07	0.16J		4.55D	
0.6 - 1	5.4B 6.5H	2B	5.58H	1.35	0.08	0.1	0.07J		7.11D	
0.6 - 1	5.4B 6.5H	2B	5.58H	1.35	0.08	0.1	0.07J		7.11D	
0.6 - 1	5.4B 6.5H	2B	5.58H	1.35	0.08	0.1	0.07J		7.11D	
1 - 1.2	5.3B 6.6H	1B	1.19A	1.15	0.07	0.12			2.53D	
1 - 1.2	5.3B 6.6H	1B	1.19A	1.15	0.07	0.12			2.53D	
1 - 1.2	5.3B 6.6H	1B	1.19A	1.15	0.07	0.12			2.53D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.18 3.8		4.58D		1700B	0.333E						6.2
0 - 0.18 3.8		4.58D		1700B	0.333E						6.2
0 - 0.18 3.8		4.58D		1700B	0.333E						6.2
0.18 - 0.6 8.1		1.15D		1300B	0.056E						7.4
0.18 - 0.6 8.1		1.15D		1300B	0.056E						7.4
0.18 - 0.6 8.1		1.15D		1300B	0.056E						7.4
0.6 - 1 7.1		1.42D		1400B	0.077E						7.4
0.6 - 1 7.1		1.42D		1400B	0.077E						7.4
0.6 - 1 7.1		1.42D		1400B	0.077E						7.4
1 - 1.2 8.3		0.54D		1200B	0.032E						5.2
1 - 1.2 8.3		0.54D		1200B	0.032E						5.2
1 - 1.2 8.3		0.54D		1200B	0.032E						5.2

**Laboratory Analyses Completed for this profile**

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  
for soluble

Exchangeable bases (Ca<sup>2+</sup>,Mg<sup>2+</sup>,Na<sup>+</sup>,K<sup>+</sup>) - 1M ammonium chloride at pH 7.0, no pretreatment  
salts

15A1\_K  
for soluble

Exchangeable bases (Ca<sup>2+</sup>,Mg<sup>2+</sup>,Na<sup>+</sup>,K<sup>+</sup>) - 1M ammonium chloride at pH 7.0, no pretreatment  
salts

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15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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
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)