Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1113** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	B. Purdie	**Locality:**	
Date Desc.:	23/04/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6516459 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	440199 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:	5 %	**Aspect:**	No Data

Surface Soil Condition

Soft

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Regolithic Sequi-Nodular Tenosol **Principal Profile Form:** K-Uc5.12
ASC Confidence: **Great Soil Group:** N/A
Analytical data are incomplete but reasonable confidence.

Site Vegetation:

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

Surface Coarse

Profile

A1c 0 - 0.08 m Dark brown (10YR3/3-Moist); ; Loamy sand; Moderate grade of structure, 5-10 mm, Platy; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Water repellent; Abundant, medium (2-5mm) roots; Clear, Smooth change to -

B21c 0.08 - 0.2 m Yellowish brown (10YR5/4-Moist); ; Sandy loam; Single grain grade of structure; Dry; Weak consistence; 50-90%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Common, medium (2-5mm) roots; Gradual, Smooth change to -

B22c 0.2 - 0.45 m Yellowish brown (10YR5/4-Moist); ; Fine sandy loam; Sandy (grains prominent) fabric; Dry; Firm consistence; 50-90%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Common, medium (2-5mm) roots; Gradual, Smooth change to -

B23c 0.45 - 1.8 m Yellowish brown (10YR5/4-Moist); ; Sandy loam; Sandy (grains prominent) fabric; Dry; Firm consistence; 50-90%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Few, medium (2-5mm) roots;

1.8 - m ;

Morphological Notes

Observation Notes

Site Notes

Photos Roll 58-28/30.

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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 - 0.08	5.4B 6.6H	8B	2.99A	0.99	0.44	0.47			4.89D	
0 - 0.08	5.4B 6.6H	8B	2.99A	0.99	0.44	0.47			4.89D	
0 - 0.08	5.4B 6.6H	8B	2.99A	0.99	0.44	0.47			4.89D	
0.08 - 0.2	6B 7.2H	2B	1.53A	0.76	0.3	0.13			2.72D	
0.08 - 0.2	6B 7.2H	2B	1.53A	0.76	0.3	0.13			2.72D	
0.08 - 0.2	6B 7.2H	2B	1.53A	0.76	0.3	0.13			2.72D	
0.2 - 0.45	6B 7.1H	2B	1.18A	0.76	0.2	0.08			2.22D	
0.2 - 0.45	6B 7.1H	2B	1.18A	0.76	0.2	0.08			2.22D	
0.2 - 0.45	6B 7.1H	2B	1.18A	0.76	0.2	0.08			2.22D	
0.45 - 0.8	5.8B 6.8H	1B	0.61A	0.61	0.1	0.07			1.39D	
0.45 - 0.8	5.8B 6.8H	1B	0.61A	0.61	0.1	0.07			1.39D	
0.45 - 0.8	5.8B 6.8H	1B	0.61A	0.61	0.1	0.07			1.39D	
0.8 - 1.3										
0.8 - 1.3										
1.3 - 1.8	5.8B 7H	1B	0.52A	0.54	0.02	0.06			1.14D	
1.3 - 1.8	5.8B 7H	1B	0.52A	0.54	0.02	0.06			1.14D	
1.3 - 1.8	5.8B 7H	1B	0.52A	0.54	0.02	0.06			1.14D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08		2.28D		120B	0.094E						6.1
5.3											
0 - 0.08		2.28D		120B	0.094E						6.1
5.3											
0 - 0.08		2.28D		120B	0.094E						6.1
5.3											
0.08 - 0.2		0.53D		87B	0.044E						6.3
7.1											
0.08 - 0.2		0.53D		87B	0.044E						6.3
7.1											
0.08 - 0.2		0.53D		87B	0.044E						6.3
7.1											
0.2 - 0.45		0.33D		72B	0.024E						5.5
9.6											
0.2 - 0.45		0.33D		72B	0.024E						5.5
9.6											
0.2 - 0.45		0.33D		72B	0.024E						5.5
9.6											
0.45 - 0.8		0.27D		65B	0.024E						5.1
9.2											
0.45 - 0.8		0.27D		65B	0.024E						5.1
9.2											
0.45 - 0.8		0.27D		65B	0.024E						5.1

9.2
0.8 - 1.3
0.8 - 1.3

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1.3 - 1.8	0.22D	57B	0.022E	5.5
3.9				
1.3 - 1.8	0.22D	57B	0.022E	5.5
3.9				
1.3 - 1.8	0.22D	57B	0.022E	5.5
3.9				

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
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
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_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)