Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1106** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	B. Purdie	**Locality:**	
Date Desc.:	22/04/98	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6512766 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	400123 Datum: AGD84	**Drainage:**	Moderately 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:**	Plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion:

Soil Classification

Australian Soil Classification:
Parapanic Humic Aquic Podosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Uc2.12
Great Soil Group: N/A

Site

Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse

Profile

A1 0 - 0.18 m Black (10YR2/1-Moist); ; Clayey sand; Weak grade of structure, 2-5 mm, ; Dry; Loose consistence; Water repellent; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Clear, Smooth change to -

A21e 0.18 - 0.5 m Dark grey (10YR4/1-Moist); ; Clayey fine sand; Single grain grade of structure; Dry; Loose consistence; Field pH 5.8 (pH meter); Common, medium (2-5mm) roots; Gradual, Smooth change to -

A22e 0.5 - 1.3 m Pale brown (10YR6/3-Moist); ; Clayey sand; Single grain grade of structure; Moderately moist; Loose consistence; Field pH 4.7 (pH meter); Few, medium (2-5mm) roots; Gradual, Smooth change to -

B21w 1.3 - 1.7 m Brown (10YR5/3-Moist); ; Clayey sand; Single grain grade of structure; Wet; Weak consistence; Field pH 4.6 (pH meter); Few, medium (2-5mm) roots; Clear, Irregular change to -

B22l 1.7 - 1.8 m Dark brown (10YR3/3-Moist); ; Clayey sand; Single grain grade of structure; Wet; Weak consistence; Field pH 4.7 (pH meter); Sharp, Irregular change to -

B23hm 1.8 - 1.9 m Black (10YR2/1-Moist); ; Massive grade of structure; Moist; Strong consistence; Organic pan, Moderately cemented, Massive; Field pH 4.8 (pH meter);

Morphological Notes

B21w Fine (2mm banding) root staining, acting as aquifer

Observation Notes

Site Notes

Photos roll 58 - 11/13. Deep pale sand. with hard pan at 170cm.

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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 - 0.18	4.9B 6H	4B	3.42H	0.77	0.07	0.1			4.36D	
0 - 0.18	4.9B 6H	4B	3.42H	0.77	0.07	0.1			4.36D	
0 - 0.18	4.9B 6H	4B	3.42H	0.77	0.07	0.1			4.36D	
0.05 - 0.1										
0.18 - 0.5	4.8B 6.2H	2B	0.43H	0.31	<0.02	0.09			0.84D	
0.18 - 0.5	4.8B 6.2H	2B	0.43H	0.31	<0.02	0.09			0.84D	
0.26 - 0.31										
0.99 - 0.99										
0.5 - 0.9	4.2B 5.1H	4B	0.07H	0.05	<0.02	0.12			0.25D	
0.5 - 0.9	4.2B 5.1H	4B	0.07H	0.05	<0.02	0.12			0.25D	
0.5 - 0.9	4.2B 5.1H	4B	0.07H	0.05	<0.02	0.12			0.25D	
0.6 - 0.65										
0.9 - 1.3	4.2B 5H	4B	0.04H	0.02	<0.02	0.1	0.02J		0.17D	
0.9 - 1.3	4.2B 5H	4B	0.04H	0.02	<0.02	0.1	0.02J		0.17D	
0.9 - 1.3	4.2B 5H	4B	0.04H	0.02	<0.02	0.1	0.02J		0.17D	
1.3 - 1.7	4.3B 5.1H	6B	0.04H	0.06	<0.02	0.22			0.33D	
1.3 - 1.7	4.3B 5.1H	6B	0.04H	0.06	<0.02	0.22			0.33D	
1.3 - 1.7	4.3B 5.1H	6B	0.04H	0.06	<0.02	0.22			0.33D	
1.52 - 1.57										
1.7 - 1.8	3.8B 5.1H	13B	0.84H	2.82	0.3	1.57	2.36J		5.53D	
1.7 - 1.8	3.8B 5.1H	13B	0.84H	2.82	0.3	1.57	2.36J		5.53D	
1.7 - 1.8	3.8B 5.1H	13B	0.84H	2.82	0.3	1.57	2.36J		5.53D	
1.8 - 1.9										
1.8 - 1.9										

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 - 0.18		1.76D		70B	0.105E						1.5
1.1											
0 - 0.18		1.76D		70B	0.105E						1.5
1.1											
0 - 0.18		1.76D		70B	0.105E						1.5
1.1											
0.05 - 0.1							1.40				
0.18 - 0.5		0.44D		12B	0.01E						1
0.6											

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0.18 - 0.5	0.44D	12B	0.01E			1
0.6						
0.26 - 0.31					1.60	
0.99 - 0.99						
0.5 - 0.9	0.2D	10B				0.7
0.6						
0.5 - 0.9	0.2D	10B				0.7
0.6						
0.5 - 0.9	0.2D	10B				0.7
0.6						
0.6 - 0.65					1.60	
0.9 - 1.3	0.16D	<10B	<0.005E			1.1
0.5						
0.9 - 1.3	0.16D	<10B	<0.005E			1.1
0.5						
0.9 - 1.3	0.16D	<10B	<0.005E			1.1
0.5						
1.3 - 1.7	0.16D	11B	<0.005E			2.1
0.7						
1.3 - 1.7	0.16D	11B	<0.005E			2.1
0.7						
1.3 - 1.7	0.16D	11B	<0.005E			2.1
0.7						
1.52 - 1.57					1.70	
1.7 - 1.8	1.94D	200B	0.046E			1.6
6.1						
1.7 - 1.8	1.94D	200B	0.046E			1.6
6.1						
1.7 - 1.8	1.94D	200B	0.046E			1.6
6.1						
1.8 - 1.9						
1.8 - 1.9						

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
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

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