Project Name: **Chittering land resources survey**
Project Code: **CHT** **Site ID:** **1111** **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.:	6515442 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	399199 Datum: AGD84	**Drainage:**	Imperfectly 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:	Terrace plain	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition

Soft

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mottled-Hypernatric Brown Sodosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.42
Great Soil Group: N/A

Site

Limited clearing, for example selective logging

Vegetation:

Surface Coarse

Profile

A1 0 - 0.08 m Black (10YR2/1-Moist); ; Loamy sand; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Clear, Smooth change to -

A21 0.08 - 0.18 m Dark greyish brown (10YR4/2-Moist); ; Clayey sand; Moist; Loose consistence; Field pH 5.9 (pH meter); Common, medium (2-5mm) roots; Clear, Smooth change to -

A22e 0.18 - 0.38 m Pale brown (10YR6/3-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Distinct; Clayey sand; Moist; Loose consistence; Field pH 6 (pH meter); Few, medium (2-5mm) roots; Abrupt, Smooth change to -

B1 0.38 - 0.5 m Light olive brown (2.5Y5/4-Moist); Mottles, 10YR46, 10-20% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Moist; Firm consistence; 10-20%, coarse fragments; Field pH 7.5 (pH meter); Few, medium (2-5mm) roots; Gradual, Irregular change to -

B21tc 0.5 - 1.1 m Olive brown (2.5Y4/4-Moist); Mottles, 2.5Y54, 20-50% , 5-15mm, Distinct; Sandy light medium clay; Massive grade of structure; Moist; Very firm consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 7.5 (pH meter); Few, medium (2-5mm) roots; Clear, Wavy change to -

B22t 1.1 - 1.3 m Olive brown (2.5Y4/4-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, coarse fragments; Field pH 7.3 (pH meter); Gradual, Irregular change to -

B23tc 1.3 - 1.6 m Light olive brown (2.5Y5/4-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moist; Firm consistence; 50-90%, coarse gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 7.2 (pH meter); Gradual, Irregular change to -

B24t 1.6 - 1.9 m Light olive brown (2.5Y5/4-Moist); Olive brown (2.5Y4/4-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct;

Light medium clay; Moist; Firm consistence; Field pH 7.1 (pH meter);

Morphological Notes

B1 Few lenses of fine gravel.

Observation Notes

Site Notes

Photos Roll 58-24/25. Deep yellow duplex that is saline at 50 cms. Effective soil depthis restricted by salinity.

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Project Code: CHT Site ID: 1111 Observation 1

Agency Name: Agriculture Western Australia

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	5B 5.9H	9B	1.99H	0.7	0.18	0.25	0.02J		3.12D	
0 - 0.08	5B 5.9H	9B	1.99H	0.7	0.18	0.25	0.02J		3.12D	
0 - 0.08	5B 5.9H	9B	1.99H	0.7	0.18	0.25	0.02J		3.12D	
0.08 - 0.18	4.5B 6H	4B	0.14H	0.16	0.06	0.14	0.04J		0.5D	
0.08 - 0.18	4.5B 6H	4B	0.14H	0.16	0.06	0.14	0.04J		0.5D	
0.08 - 0.18	4.5B 6H	4B	0.14H	0.16	0.06	0.14	0.04J		0.5D	
0.12 - 0.17										
0.18 - 0.38	4.7B 6H	4B	0.08H	0.14	0.03	0.27	0.02J		0.52D	
0.18 - 0.38	4.7B 6H	4B	0.08H	0.14	0.03	0.27	0.02J		0.52D	
0.18 - 0.38	4.7B 6H	4B	0.08H	0.14	0.03	0.27	0.02J		0.52D	
0.38 - 0.5	7.2H	270B	1.34A	11.06	0.32	6.05			18.77D	
0.38 - 0.5	7.2H	270B	1.34A	11.06	0.32	6.05			18.77D	
0.38 - 0.5	7.2H	270B	1.34A	11.06	0.32	6.05			18.77D	
0.4 - 0.45										
0.5 - 1.1	7B 7.4H		2.4A	15.31	0.47	9.82			28D	
0.5 - 1.1	7B 7.4H		2.4A	15.31	0.47	9.82			28D	
0.5 - 1.1	7B 7.4H		2.4A	15.31	0.47	9.82			28D	
1.1 - 1.3	7.1B 7.5H	310B	3.78A	20.41	0.48	13.39			38.06D	
1.1 - 1.3	7.1B 7.5H	310B	3.78A	20.41	0.48	13.39			38.06D	
1.1 - 1.3	7.1B 7.5H	310B	3.78A	20.41	0.48	13.39			38.06D	
1.2 - 1.25										
1.3 - 1.6	6.8B		2.92A	17.44	0.4	11.37			32.13D	
1.3 - 1.6	6.8B		2.92A	17.44	0.4	11.37			32.13D	
1.3 - 1.6	6.8B		2.92A	17.44	0.4	11.37			32.13D	
1.6 - 1.9	6.7B 7H		2.8A	16.76	0.34	11.48			31.38D	
1.6 - 1.9	6.7B 7H		2.8A	16.76	0.34	11.48			31.38D	
1.6 - 1.9	6.7B 7H		2.8A	16.76	0.34	11.48			31.38D	

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		1.02D		55B	0.074E						1.3
2.1											

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0 - 0.08	1.02D	55B	0.074E			1.3
2.1						
0 - 0.08	1.02D	55B	0.074E			1.3
2.1						
0.08 - 0.18	0.28D	16B	0.018E			0.6
1						
0.08 - 0.18	0.28D	16B	0.018E			0.6
1						
0.08 - 0.18	0.28D	16B	0.018E			0.6
1						
0.12 - 0.17				1.60		
0.18 - 0.38	0.08D	12B				0.2
0.7						
0.18 - 0.38	0.08D	12B				0.2
0.7						
0.18 - 0.38	0.08D	12B				0.2
0.7						
0.38 - 0.5	0.11D	16B	0.009E			1.3
22.2						
0.38 - 0.5	0.11D	16B	0.009E			1.3
22.2						
0.38 - 0.5	0.11D	16B	0.009E			1.3
22.2						
0.4 - 0.45				1.70		
0.5 - 1.1	0.09D	32B	<0.005E			2
35.2						
0.5 - 1.1	0.09D	32B	<0.005E			2
35.2						
0.5 - 1.1	0.09D	32B	<0.005E			2
35.2						
1.1 - 1.3	0.09D	16B	<0.005E			1.7
46.4						
1.1 - 1.3	0.09D	16B	<0.005E			1.7
46.4						
1.1 - 1.3	0.09D	16B	<0.005E			1.7
46.4						
1.2 - 1.25				1.40		
1.3 - 1.6	0.09D	28B	<0.005E			3.5
37.6						
1.3 - 1.6	0.09D	28B	<0.005E			3.5
37.6						
1.3 - 1.6	0.09D	28B	<0.005E			3.5
37.6						
1.6 - 1.9	0.07D	27B	<0.005E			3.4
37.8						
1.6 - 1.9	0.07D	27B	<0.005E			3.4
37.8						
1.6 - 1.9	0.07D	27B	<0.005E			3.4
37.8						

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
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_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
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

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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