

Project Name: Chittering land resources survey
Project Code: CHT **Site ID:** 1110 **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.:	6505675 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	403606 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: (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Humose-Bleached Hypercalcic Grey Chromosol		Principal Profile Form:	Dy5.53
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation:

Surface Coarse

Profile

1Ah	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Clayey sand; Weak grade of structure, 2-5 mm; ; Very weak
		consistence; Water repellent; Field pH 6.8 (pH meter); Abundant, fine (1-2mm) roots;
Clear, Smooth		change to -
1A21e	0.15 - 0.65 m	Light grey (10YR7/2-Moist); Mottles, 10YR56, 10-20% , 5-15mm, Distinct; Clayey sand;
Single grain		grade of structure; Moist; Weak consistence; Field pH 6.8 (pH meter); Few, coarse (> 5mm) roots; Clear,
		Smooth change to -
1A22e	0.65 - 0.85 m	Very pale brown (10YR7/3-Moist); , 5G42, 10-20% , 30-mm, Distinct; Clayey sand; Single grain grade of
		structure; Moist; Weak consistence; Field pH 8.4 (pH meter); Few, coarse (>5mm) roots;
Abrupt, Wavy		change to -
2B21ctk	0.85 - 1.25 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR68, 20-50% , 0-5mm, Distinct; Light medium clay;
		Single grain grade of structure; Moist; Firm consistence; Soil matrix is Very highly
calcareous; Field pH		9.5 (pH meter); Abrupt, Irregular change to -
3C1	1.25 - 2 m	White (2.5Y8/2-Moist); ; Clay loam, sandy; Massive grade of structure; Moist; Firm
consistence; 10-20%,		coarse fragments; Field pH 9.5 (pH meter); Gradual, Irregular change to -
4C2	2 - 2.4 m	Light brownish grey (2.5Y6/2-Moist); Light grey (2.5Y7/2-Moist); Mottles, 10YR56, 10-20%
, 5-15mm,		Distinct; Mottles, 5G42, 10-20% , 30-mm, Distinct; Light medium clay; Massive grade of
structure;		Massive grade of structure; Moist; Firm consistence; Many (20 - 50 %), Calcareous, Very
coarse (20 -		60 mm), Soft segregations; Field pH 9.7 (pH meter);
2.4 - m		Pale red (2.5YR7/2-Moist); Mottles, 5G42, 10-20% , 30-mm, Distinct; Light medium clay;
Massive grade		of structure; Soil matrix is Very highly calcareous; Field pH 9.5 (pH meter);

Morphological Notes

1Ah	Few coars roots
3C1	Mixed material

Observation Notes**Site Notes**

Photo Roll 58-20/21 Slightly salty clay at 85cm. and as such classed as a deep pale sand. Rooting depth could be limited due to high lime content of clay.

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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 - 0.15	5.3B 6.1H	19B	3.07H	1.08	0.17	0.55	<0.02J		4.87D	
0 - 0.15	5.3B 6.1H	19B	3.07H	1.08	0.17	0.55	<0.02J		4.87D	
0 - 0.15	5.3B 6.1H	19B	3.07H	1.08	0.17	0.55	<0.02J		4.87D	
0.02 - 0.07										
0.15 - 0.65	5.8B 6.9H	5B	0.2A	0.08	0.04	0.11			0.43D	
0.15 - 0.65	5.8B 6.9H	5B	0.2A	0.08	0.04	0.11			0.43D	
0.15 - 0.65	5.8B 6.9H	5B	0.2A	0.08	0.04	0.11			0.43D	
0.35 - 0.4										
0.65 - 0.85	6.7B 7.8H	5B	0.22A	0.19	0.06	0.14			0.61D	
0.65 - 0.85	6.7B 7.8H	5B	0.22A	0.19	0.06	0.14			0.61D	
0.65 - 0.85	6.7B 7.8H	5B	0.22A	0.19	0.06	0.14			0.61D	
0.85 - 1.25	8.2B 9.3H	47B	6.27E	15.12	0.89	11.91		34B	34.19D	35.03
0.85 - 1.25	8.2B 9.3H	47B	6.27E	15.12	0.89	11.91		34B	34.19D	35.03
0.85 - 1.25	8.2B 9.3H	47B	6.27E	15.12	0.89	11.91		34B	34.19D	35.03
0.98 - 1.03										
1.25 - 2	8.5B 10H	74B	1.72E	5.84	0.08	4.42		13B	12.06D	34.00
1.25 - 2	8.5B 10H	74B	1.72E	5.84	0.08	4.42		13B	12.06D	34.00
1.25 - 2	8.5B 10H	74B	1.72E	5.84	0.08	4.42		13B	12.06D	34.00
1.55 - 1.6										
2 - 2.4	8.7B 10.1H	44B	2E	5.89	0.06	3.61		12B	11.56D	30.08
2 - 2.4	8.7B 10.1H	44B	2E	5.89	0.06	3.61		12B	11.56D	30.08
2 - 2.4	8.7B 10.1H	44B	2E	5.89	0.06	3.61		12B	11.56D	30.08

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.15 1.4		1.87D		110B	0.137E					1.2
0 - 0.15 1.4		1.87D		110B	0.137E					1.2
0 - 0.15 1.4		1.87D		110B	0.137E					1.2
0.02 - 0.07							1.30			
0.15 - 0.65 0.8		0.06D		28B	<0.005E					0.4
0.15 - 0.65 0.8		0.06D		28B	<0.005E					0.4

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0.15 - 0.65 0.8	0.06D	28B	<0.005E		0.4
0.35 - 0.4				1.50	
0.65 - 0.85 0.9	0.05D	63B	<0.005E		0.9
0.65 - 0.85 0.9	0.05D	63B	<0.005E		0.9
0.65 - 0.85 0.9	0.05D	63B	<0.005E		0.9
0.85 - 1.25 39.6	0.12D	22B	0.028E		1
0.85 - 1.25 39.6	0.12D	22B	0.028E		1
0.85 - 1.25 39.6	0.12D	22B	0.028E		1
0.98 - 1.03 1.25 - 2 23.8	69C 0.16D	21B	0.022E	1.20	22.7
1.25 - 2 23.8	69C 0.16D	21B	0.022E		22.7
1.25 - 2 23.8	69C 0.16D	21B	0.022E		22.7
1.55 - 1.6 2 - 2.4 15.3	5C 0.04D	11B	0.01E	1.40	3
2 - 2.4 15.3	5C 0.04D	11B	0.01E		3
2 - 2.4 15.3	5C 0.04D	11B	0.01E		3

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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)

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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