

Project Name: Chittering land resources survey
Project Code: CHT **Site ID:** 1105 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	B. Purdie	Locality:	
Date Desc.:	21/04/98	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6525524 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	412455 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:	Low hills
Morph. Type:	Open depression (vale)	Relief:	No Data
Elem. Type:	Drainage depression	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion: (sheet) (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Black Kandosol		Principal Profile Form:	Gn1.11
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Limited clearing, for example selective logging

Vegetation:

Surface Coarse

Profile

1A1 0 - 0.35 m	Very dark brown (10YR2/2-Moist); ; Loam; Moderate grade of structure, 10-20 mm, Polyhedral;
	Moderately moist; Firm consistence; Field pH 7 (pH meter); Many, medium (2-5mm) roots; Clear,
	Smooth change to -
2B21w 0.35 - 0.55 m	Very dark greyish brown (10YR3/2-Moist); Mechanical, 7.5YR66, 2-10% , 0-5mm, Distinct; Clay loam,
	sandy; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.1 (pH meter);
	Common, medium (2-5mm) roots; Clear, Smooth change to -
3B22w 0.55 - 0.85 m	Dark greyish brown (10YR4/2-Moist); Mottles, 7.5YR46, 2-10% , 0-5mm, Faint; Fine sandy clay loam;
	Massive grade of structure; Moderately moist; Firm consistence; 2-10%, coarse (pH meter); Common, medium (2-5mm) roots; Clear, Smooth change to -
4B23w 0.85 - 1.1 m	Dark greyish brown (10YR4/2-Moist); Mottles, 7.5YR46, 10-20% , 0-5mm, Faint; Loam; Massive grade
	of structure; Moist; Firm consistence; 2-10%, coarse fragments; Field pH 5.4 (pH meter); Common,
	medium (2-5mm) roots; Clear, Smooth change to -
5B24w 1.1 - 1.6 m	Brown (10YR4/3-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Firm consistence; 2-10%,
	fine gravelly, 2-6mm, subangular, Gneiss, coarse fragments; Field pH 5.4 (pH meter); Few, medium (2-
	5mm) roots;
1.6 - m	; Sandy clay loam;

Morphological Notes

3B22w	Abundant mica flakes.
4B23w	Sand lenses.
5B24w	Gravely sand lenses.

Observation Notes

Site Notes

Photos Rolls 58 - 9/10. Deep yellow duplex over loam. Saline at 1m. Effective soil depth is less due to salinity.

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Observation 1

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 - 0.14	5.6B 6.6H	4B	12.47H	9.22	0.28	0.33	0.04J		22.3D	
0 - 0.14	5.6B 6.6H	4B	12.47H	9.22	0.28	0.33	0.04J		22.3D	
0 - 0.14	5.6B 6.6H	4B	12.47H	9.22	0.28	0.33	0.04J		22.3D	
0.07 - 0.12										
0.35 - 0.55	5.4B 6.7H	4B	5.01A	6.05	0.3	0.46			11.82D	
0.35 - 0.55	5.4B 6.7H	4B	5.01A	6.05	0.3	0.46			11.82D	
0.35 - 0.55	5.4B 6.7H	4B	5.01A	6.05	0.3	0.46			11.82D	
0.38 - 0.43										
0.55 - 0.85	5.4B 6.2H	13B	3.84H	4.32	0.16	0.53	0.05J		8.85D	
0.55 - 0.85	5.4B 6.2H	13B	3.84H	4.32	0.16	0.53	0.05J		8.85D	
0.55 - 0.85	5.4B 6.2H	13B	3.84H	4.32	0.16	0.53	0.05J		8.85D	
0.57 - 0.62										
0.85 - 1.1	5B 5.3H	230B	4.09H	5.45	0.28	1.15	0.23J		10.97D	
0.85 - 1.1	5B 5.3H	230B	4.09H	5.45	0.28	1.15	0.23J		10.97D	
0.85 - 1.1	5B 5.3H	230B	4.09H	5.45	0.28	1.15	0.23J		10.97D	
1.1 - 1.5	5B 5.4H	210B	1.79H	3.58	0.16	0.96	0.11J		6.49D	
1.1 - 1.5	5B 5.4H	210B	1.79H	3.58	0.16	0.96	0.11J		6.49D	
1.1 - 1.5	5B 5.4H	210B	1.79H	3.58	0.16	0.96	0.11J		6.49D	

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 - 0.14		4.47D		350B	0.274E					27.5
20.2										
0 - 0.14		4.47D		350B	0.274E					27.5
20.2										
0 - 0.14		4.47D		350B	0.274E					27.5
20.2										
0.07 - 0.12							0.80			
0.35 - 0.55		2.56D		300B	0.149E					21.1
23										
0.35 - 0.55		2.56D		300B	0.149E					21.1
23										
0.35 - 0.55		2.56D		300B	0.149E					21.1
23										
0.38 - 0.43							1.00			
0.55 - 0.85		1.28D		220B	0.07E			70.1I		11.6
18.3										
0.55 - 0.85		1.28D		220B	0.07E			70.1I		11.6
18.3										
0.55 - 0.85		1.28D		220B	0.07E			70.1I		11.6
18.3										
0.57 - 0.62							1.20			
0.85 - 1.1		2.02D		250B	0.098E			66.3I		13.8

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0.85 - 1.1 19.9	2.02D	250B	0.098E	66.3l	13.8
0.85 - 1.1 19.9	2.02D	250B	0.098E	66.3l	13.8
1.1 - 1.5 17.6	0.96D	190B	0.042E	72.9l	9.5
1.1 - 1.5 17.6	0.96D	190B	0.042E	72.9l	9.5
1.1 - 1.5 17.6	0.96D	190B	0.042E	72.9l	9.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
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
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
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_S	Sand (%) - 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