

Project Name: Hardsetting Soils
Project Code: HS **Site ID:** CP293 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Southeast of 'The Rock'. On the southern edge of Lake Plain.
Date Desc.:	01/01/92	Elevation:	No Data
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6094600 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	513850 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		Great Soil Group:	N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Dark brown (10YR3/3-Moist); ; Loam; Moderate grade of structure, <2 mm, Granular; Weak consistence; Many
A2	0.13 - 0.21 m	Brown (10YR5/3-Moist); ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Very weak consistence; Many
BA	0.21 - 0.4 m	Yellowish brown (10YR5/4-Moist); ; Silty clay loam; Weak grade of structure, 20-50 mm, Prismatic; Firm consistence; Common
B21t	0.4 - 0.71 m	Yellowish brown (10YR5/6-Moist); ; Silty clay; Weak grade of structure, 10-20 mm, Subangular blocky; Firm consistence; Few
B22t	0.71 - 1 m	Yellowish brown (10YR5/6-Moist); ; Silty clay; Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Few
BC1	1 - 1.35 m	Yellowish brown (10YR5/6-Moist); ; Silty clay loam; Massive grade of structure; Firm
BC2	1.35 - 1.75 m	Yellowish brown (10YR5/6-Moist); ; 7.5YR5/6, 10-20% , 5-15mm, Distinct; Silty clay loam; Massive grade of structure; Firm consistence;
BC3	1.75 - 2.15 m	Yellowish brown (10YR5/4-Moist); , 10YR6/3, 10-20% , 5-15mm, Faint; Silty clay; Massive grade of structure; Firm consistence;
BC4	2.15 - 2.6 m	Yellowish brown (10YR5/4-Moist); , 10YR6/3, 10-20% , 5-15mm, Prominent; Silty clay; Massive grade of structure; Firm consistence;

Morphological Notes

A2	American system, horizon is E.
BA	American system, horizon is BE. Fine sand and silt coatings on prism faces in 21-71 cm horizons.
B21t	American system, horizon is Bt1. Fine sand and silt coatings on prism faces in 21-71 cm horizons.
B22t	American system, horizon is Bt2.

Observation Notes

Soil Taxonomy, Typic Natixeralf, fine.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.13	5.51A	0.09A	1.3E	0.61	0.7	0.11			
0.13 - 0.21	6.11A	0.04A	1.3E	0.82	0.58	0.19			
0.21 - 0.4	6.69A	0.09A	2.5E	3.6	0.54	1.1			
0.4 - 0.71	8.47A	0.14A	3.1E	6.8	0.8	2.5			
0.71 - 1	8.9A	0.19A	3.6E	8.2	0.99	3.4			
1 - 1.35	8.94A	0.2A	4.1E	9.3	1.1	4.5			
1.35 - 1.75	8.93A	0.32A							
1.75 - 2.15	8.97A	0.41A							
2.15 - 2.6	8.81A	0.38A							

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Laboratory Analyses Completed for this profile

13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13A1_MN	Oxalate-extractable manganese
13A1_SI	Oxalate-extractable silicon
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_SI	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15I4	CEC measurement - titration of ammonium and chloride ions
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance