

Project Name: Hardsetting Soils
Project Code: HS **Site ID:** CP301 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Northwestern edge of Edwards Hill, Southeast of 'Yerong Creek'.
Date Desc.:	01/01/92	Elevation:	No Data
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6081150 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	509000 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:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	5 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 - 0.11 m	Dark reddish brown (5YR3/3-Moist); ; Coarse sandy loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Many
AB	0.11 - 0.21 m	Dark reddish brown (5YR3/4-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Many
B21w	0.21 - 0.32 m	Reddish brown (5YR4/4-Moist); ; Coarse sandy loam; Massive grade of structure; Weak grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Common
B22w	0.32 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Very weak consistence; Common
B23w	0.5 - 0.75 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Very weak consistence; Few
B24w	0.75 - 1.1 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Very weak consistence; Few
B25w	1.1 - 1.3 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; Single grain grade of structure; Loose consistence;
B26w	1.3 - 1.5 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Firm consistence;
R	1.5 - 1.65 m	Rock

Morphological Notes

B21w	American system, horizon is Bw1.
B22w	American system, horizon is Bw2.
B23w	American system, horizon is Bw3.
B24w	American system, horizon is Bw4.
B25w	American system, horizon is Bw5.
B26w	American system, horizon is Bw6.
R	No horizon given, called smple no. 9. Weathered granite.

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.11	4.96A	0.15A	1.2E	0.36	0.33	0			
0.11 - 0.21	5.36A	0.03A	1.5E	0.34	0.11	0			
0.21 - 0.32	5.99A	0.02A	1.6E	0.42	0.08	0.14			
0.32 - 0.5	6.64A	0.02A	2.1E	0.53	0.1	0.29			
0.5 - 0.75	6.84A	0.02A	2E	0.61	0.28	0.12			
0.75 - 1.1	6.93A	0.02A	1.8E	0.83	0.33	0.23			
1.1 - 1.3	6.35A	0.02A	0.52E	1	0.23	0.15			
1.3 - 1.5	6.2A	0.02A	0.6E	1.4	0.31	0.19			
1.5 - 1.65	6.32A	0.03A	0.89E	2.1	0.64	0.21			

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis		
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.11		1.47C							33D	42	9	14
0.11 - 0.21		0.3C							44D	35	10	11
0.21 - 0.32		0.27C							45D	33	10	11
0.32 - 0.5									44D	33	9	13
0.5 - 0.75									44D	35	9	12
0.75 - 1.1									44D	34	9	13
1.1 - 1.3									42D	35	12	12
1.3 - 1.5									40D	31	11	18
1.5 - 1.65									38D	29	9	28

[illegible]

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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
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