Project Name: **Soils of the MonartoTown Site**
Project Code: **Monarto** **Site ID:** **A1179** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	Malcolm J. Wright	**Locality:**	
Date Desc.:	21/11/75	**Elevation:**	No Data
Map Ref.:	1:50000	**Rainfall:**	No Data
Northing/Long.:	6119960 AMG zone: 54	**Runoff:**	No Data
Easting/Lat.:	335920 Datum: AGD66	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**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:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gc1.21
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, , , Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Very weak consistence; Field pH 7 (Raupach); Sharp change to -
B1	0.1 - 0.17 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, Gneiss, coarse fragments; Field pH 8.5 (Raupach); Clear change to -
B2k	0.17 - 0.3 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, angular, Gneiss, coarse fragments; Few (2 - 10 %), Calcareous, , ; Field pH 8.5 (Raupach); Gradual, Broken change to -
R	0.3 - 0.65 m	Rock

Morphological Notes

R Weathering gneiss.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8A	0.13A	8.4K	2.1	1.4	0.19		14J		1.36
0.1 - 0.17	8.4A	0.14A	12.8K	2.5	0.9	0.19		18J		1.06
0.17 - 0.3	8.5A	0.17A	15.7K	3.5	0.66	0.29		21J		1.38
0.3 - 0.65										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	<0.1C								10I	37	10	10
0.1 - 0.17	0.4C								6I	40	6	14
0.17 - 0.3	5.9C								4I	32	4	22
0.3 - 0.65												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.17										
0.17 - 0.3										
0.3 - 0.65										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5_NR	Water soluble Chloride - Cl(%) - Not recordede
P10_NR_C	Clay (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded