Project Name: **Soils of the MonartoTown Site**
Project Code: **Monarto** **Site ID:** **A1149** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: Malcolm J. Wright
Date Desc.: 27/11/75
Map Ref.: 1:50000
Northing/Long.: 6111690 AMG zone: 54
Easting/Lat.: 336110 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
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: Db1.13
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Firm consistence; Field pH 6.5 (Raupach); Clear change to -
A/B	0.07 - 0.14 m	Brown (7.5YR4/4-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Strong grade of structure, 10-20 mm, Prismatic; Dry; Very firm consistence; Field pH 7.5 (Raupach); Sharp change to -
B2k	0.14 - 0.24 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong grade of structure, 10-20 mm, Prismatic; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (Raupach); Clear change to -
B2k	0.24 - 0.34 m	Yellowish brown (10YR5/4-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Strong grade of structure, 10-20 mm, Prismatic; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9 (Raupach);
B2k	0.34 - 0.44 m	Brownish yellow (10YR6/6-Moist); ; Clay loam; Massive grade of structure; Weak grade of structure, Angular blocky; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9 (Raupach);
Ck	0.44 - 0.65 m	Reddish yellow (7.5YR6/6-Moist); ; Loam; Massive grade of structure; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9 (Raupach);
Ck	0.65 - 0.85 m	Pale yellow (2.5Y7/4-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Diffuse change to -
R	0.85 - 1 m	Rock
R	1 - 1.4 m	Rock

Morphological Notes

A1	Sets very hard.
A/B	Much organic staining on ped. faces and sand in cracks. An A/B horizon.
B2k	Organic matter staining.
B2k	Organic matter staining, micaceous.
R	Mainly weathering gneiss with carbonate matrix.
R	In situ gneissic schist. Highly micaceous.

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Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.07	8.1A	0.13A	3.8K	1	0.54	0.09				
0.07 - 0.14										
0.14 - 0.24	8.8A	0.17A	22.6K	8	1.7	1.3				
0.24 - 0.34										
0.34 - 0.44										
0.44 - 0.65	9.6A	0.3A	8.2K	7.4	0.83	2.4				
0.65 - 0.85										
0.85 - 1										
1 - 1.4										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07	0.17C								2l	46	2	6
0.07 - 0.14												
0.14 - 0.24	14C								2l	13	2	42
0.24 - 0.34												
0.34 - 0.44												
0.44 - 0.65	38C								2l	10	2	28
0.65 - 0.85												
0.85 - 1												
1 - 1.4												

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 - 0.07										
0.07 - 0.14										
0.14 - 0.24										
0.24 - 0.34										
0.34 - 0.44										
0.44 - 0.65										
0.65 - 0.85										
0.85 - 1										
1 - 1.4										

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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_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