

**Project Name:** Soils of the MonartoTown Site  
**Project Code:** Monarto **Site ID:** A1171 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b> Malcolm J. Wright	<b>Locality:</b>
<b>Date Desc.:</b> 21/11/75	<b>Elevation:</b> No Data
<b>Map Ref.:</b> 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6112400 AMG zone: 54	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 330110 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> No Data	<b>Slope Category:</b> No Data
<b>Slope:</b> %	<b>Aspect:</b> No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dr2.33
	<b>Great Soil Group:</b> N/A

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR4/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Clear change to -
A2	0.1 - 0.2 m	Dark reddish grey (5YR4/2-Moist); , 5YR73; Loamy sand; Massive grade of structure; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Sharp change to -
AB	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay; , Angular blocky; , Columnar; Dry; Strong consistence; Field pH 7 (Raupach);
B2t	0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Sandy clay; , Angular blocky; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Strong consistence; Common (10 - 20 %), Calcareous, , ; Field pH 7.5 (Raupach); Clear change to -
B2tk	0.4 - 0.5 m	Reddish yellow (7.5YR6/6-Moist); , 5YR78; Clay loam; Massive grade of structure; Weak grade of structure, Platy; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.5 (Raupach);
C1k	0.5 - 0.6 m	Reddish yellow (7.5YR6/6-Moist); , 5YR78; Sandy clay loam; Massive grade of structure; Weak grade of structure, Platy; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach);
C1k	0.6 - 0.7 m	Reddish yellow (7.5YR6/6-Moist); , 5YR78; Sandy clay loam; Massive grade of structure; Weak grade of structure, Platy; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Schist, coarse fragments; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach);
C2k	0.7 - 0.8 m	Reddish yellow (7.5YR6/6-Moist); , 10YR52; Clay loam; Massive grade of structure; , Platy; Very firm consistence; 20-50%, medium gravelly, 6-20mm, Schist, coarse fragments; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
C2k	0.8 - 0.9 m	Reddish yellow (7.5YR6/6-Moist); , 10YR52, 0-2% ; Silty loam; Massive grade of structure; , Platy; Very firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9 (Raupach); Gradual change to -
2R	0.9 - 1.2 m	Rock

#### Morphological Notes

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A2	This horizon tongues into clay below causing irregularities in the boundary at 10cm.
AB	Very sandy at top. Many sand filled burrows. SC texture is uncertain.
B2t	SC texture is uncertain.
B2tk	Mainly semi-hard lime. Some pockets of clay from above persist.
C2k	60% semi-hard lime. 40% weathering schist.
C2k	50/50 % weathering schist and carbonate matrix.
2R	Mainly weathering schist.

**Observation Notes**

**Site Notes**

**Observation ID: 1**

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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 recorded
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