Project Name: Soils of the MonartoTown Site

Project Code: Monarto Site ID: A1191 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.: Runoff: 6122730 AMG zone: 54 No Data 338400 Datum: AGD66 Easting/Lat.: 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 DataPattern Type:No DataMorph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Gc1.12ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance:

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

Vellowish red (5YR3/6-Moist); ; Sandy loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Diffuse change to 
Vellowish red (5YR5/6-Moist); ; Sandy loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Diffuse change to 
Reddish yellow (5YR7/8-Moist); ; Sandy clay loam; Massive grade of structure; Firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Diffuse change to 
Reddish yellow (5YR7/6-Moist); ; 5YR46; Fine sandy clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -

0.9 - 1.7 m Dark reddish brown (5YR3/3-Moist); , 10YR31; Clay loam; , Angular blocky; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

**Morphological Notes** 

Soft calcareous throughout. Large calcareous layer. FSC texture is uncertain.

**Observation Notes** 

**Site Notes** 

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## **Laboratory Test Results:**

| <u>Laboratory root recounts.</u> |       |                   |                                       |                  |                     |                |                             |                        |    |      |                       |       |
|----------------------------------|-------|-------------------|---------------------------------------|------------------|---------------------|----------------|-----------------------------|------------------------|----|------|-----------------------|-------|
| Depth                            | pН    | 1:5 EC            |                                       | hangeable<br>Viq | Cations<br>K        | Na             | Exchangeable Acidity        | CEC                    |    | ECEC |                       | ESP   |
| m                                |       | dS/m              |                                       | J                |                     | Cmol (         |                             |                        |    |      |                       | %     |
| 0 - 0.08<br>0.08 - 0.3           | 8.4A  | 0.16A             | 8.9K                                  | 1.4              | 1.5                 | 0.19           |                             | 11J                    | J  |      |                       | 1.73  |
| 0.3 - 0.5<br>0.5 - 0.9           | 9.7A  | 0.24A             | 2.8K                                  | 6.4              | 1.1                 | 1.3            |                             | 9J                     |    |      |                       | 14.44 |
| 0.9 - 1.7                        | 10A   | 0.68A             | 1.5K                                  | 3.9              | 2.2                 | 6.5            |                             | 13J                    | J  |      | ;                     | 50.00 |
| Depth<br>m                       | CaCO3 | Organic<br>C<br>% | Avail.<br>P<br>mg/kg                  | Total<br>P<br>%  | Total<br>N<br>%     | Tota<br>K<br>% | al Bulk<br>Density<br>Mg/m3 | Particle Size GV CS FS |    | FS   | Analysis<br>Silt Clay |       |
|                                  |       | 70                | ilig/kg                               | 70               | 70                  | 70             | Mg/III3                     |                        |    |      |                       |       |
| 0 - 0.08<br>0.08 - 0.3           | 1.2C  |                   |                                       |                  |                     |                |                             |                        | 31 | 56   | 3                     | 13    |
| 0.3 - 0.5<br>0.5 - 0.9           | 40C   |                   |                                       |                  |                     |                |                             |                        | 31 | 28   | 3                     | 13    |
| 0.9 - 1.7                        | 3.3C  |                   |                                       |                  |                     |                |                             |                        | 81 | 41   | 8                     | 29    |
| Depth                            | COLE  |                   | Gravimetric/Volumetric Water Contents |                  |                     |                |                             |                        |    | at   | K unsa                | at    |
| m                                |       | Sat.              | 0.05 Bar                              | 0.1 Bar<br>g/s   | 0.5 Bar<br>g - m3/m | 1 Bar<br>3     | 5 Bar 15                    | Bar                    | mm | ı/h  | mm/h                  | 1     |

<sup>0 - 0.08</sup> 0.08 - 0.3 0.3 - 0.5 0.5 - 0.9 0.9 - 1.7

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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 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
P10\_NR\_FS
P10\_NR\_FS
P10\_NR\_S
P10\_NR\_Z
P